

FIG.2

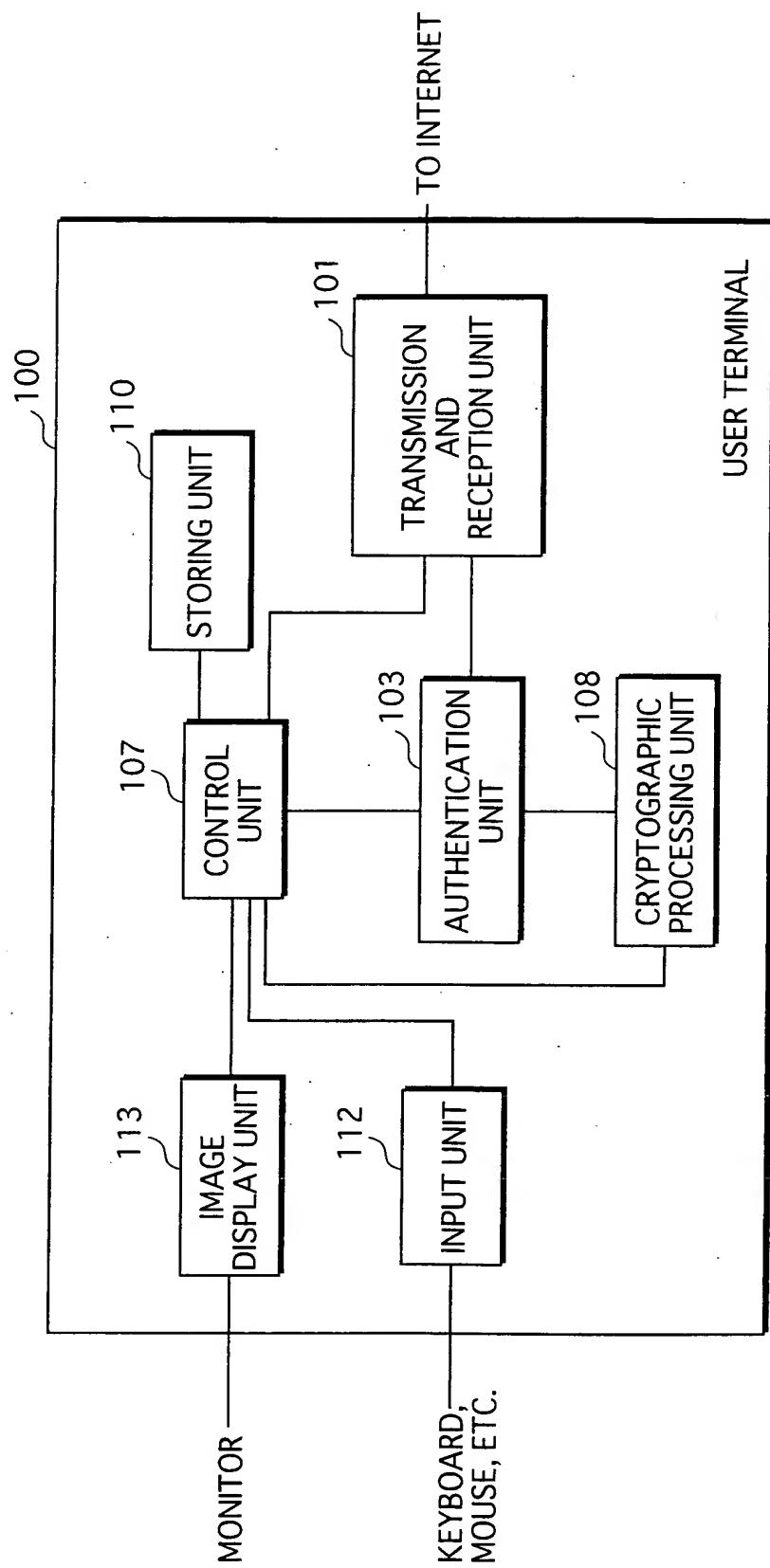


FIG.3

APPLICATION NUMBER TABLE	
SERVICE	APPLICATION NUMBER
TRAVEL EXPENSE SETTLEMENT	001
VACATION REQUEST	002
CONFERENCE ROOM RESERVATION	003
EMPLOYEE PURCHASE	004
MANAGEMENT	005

110

120

130

135

136

137

138

TERMINAL ID : ta0n1mal
PRIVATE KEY
PUBLIC KEY CERTIFICATE
CRL
PUBLIC KEY OF CERTIFICATE AUTHORITY

FIG.4

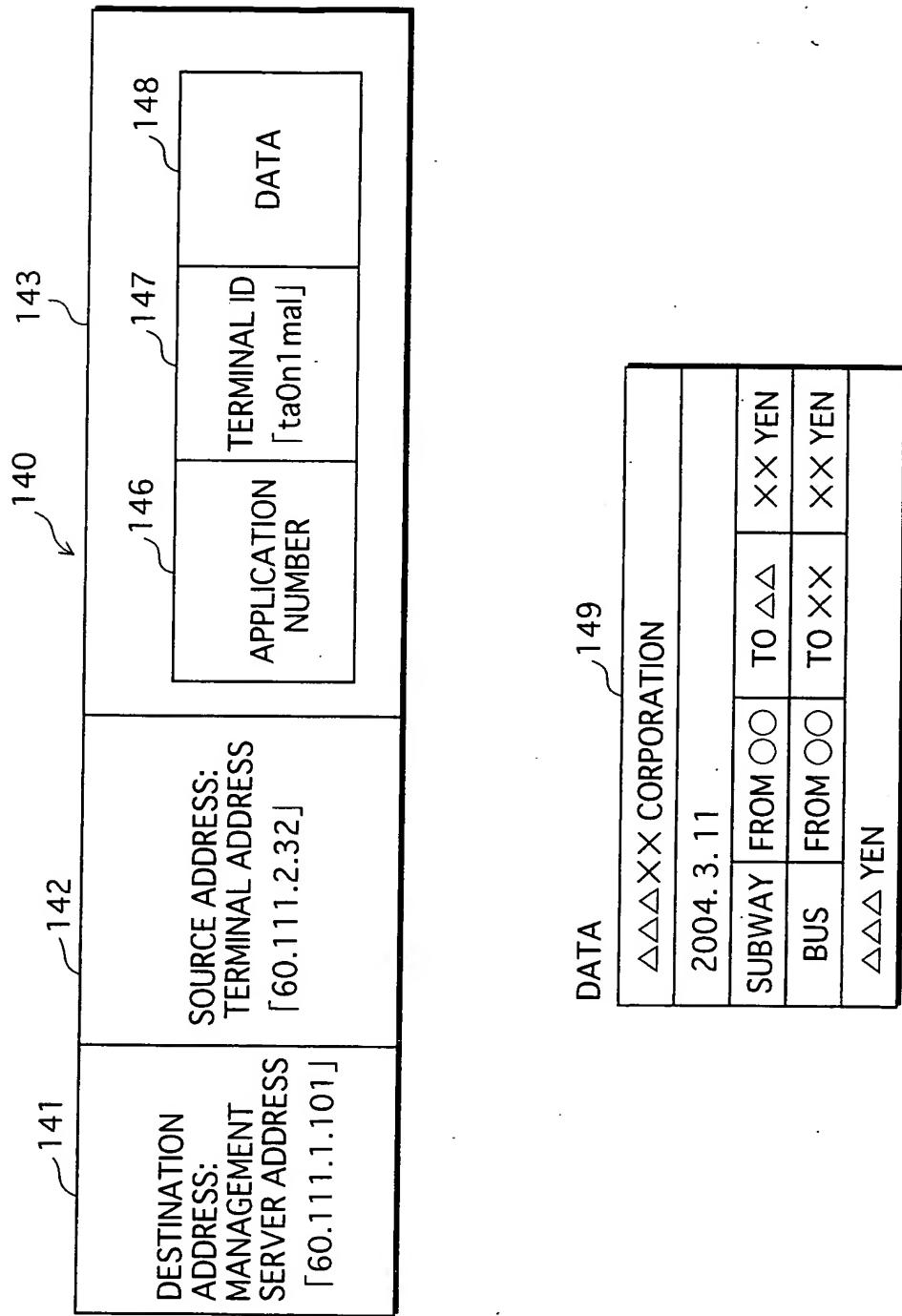
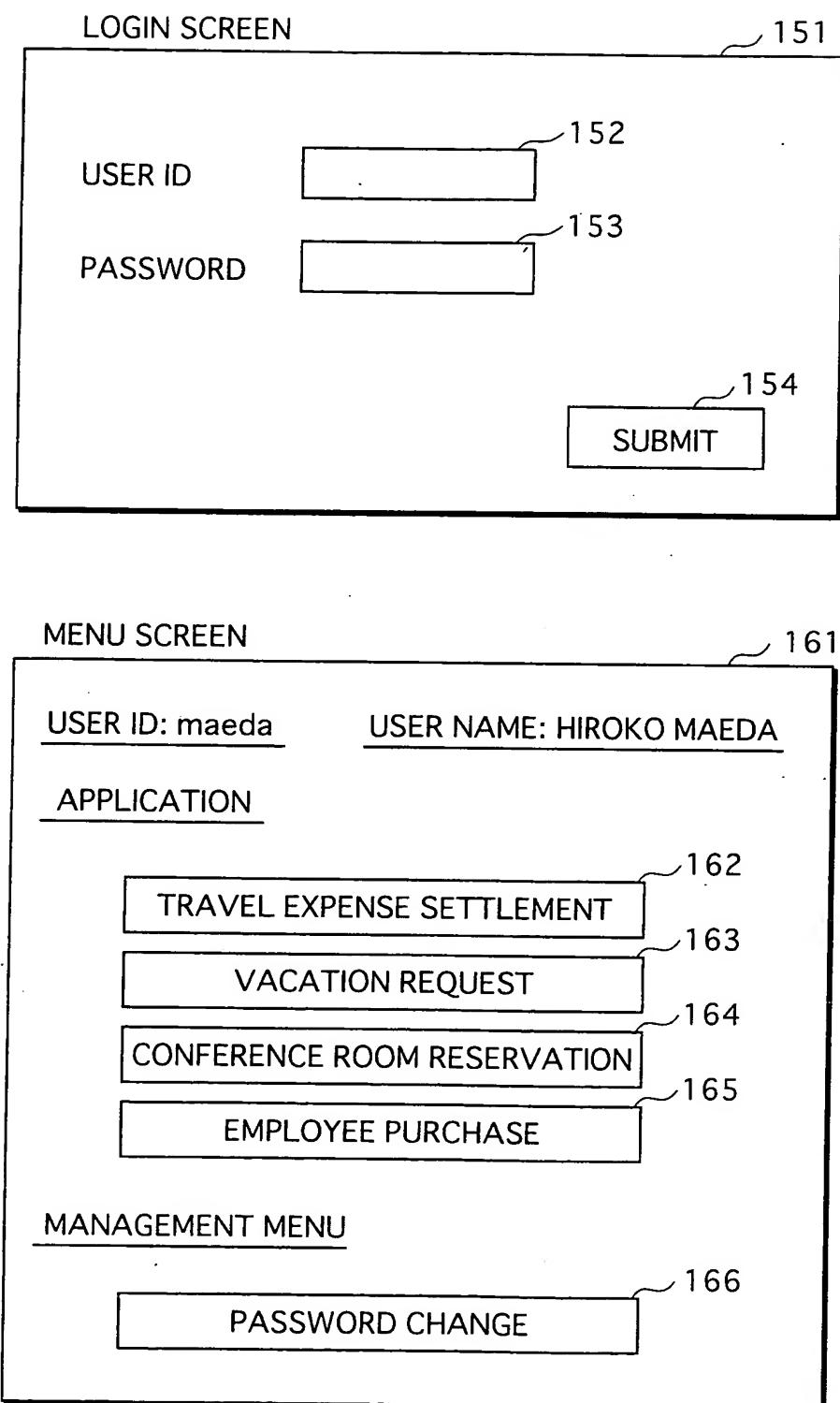


FIG.5



10/552374

FIG.6

EXPENSE SETTLEMENT SCREEN

171

USER ID: maeda      USER NAME: HIROKO MAEDA

● FILL IN THE BLANKS AND PRESS THE SUBMIT BUTTON.

DESTINATION

DATE  YEAR  MONTH  DAY

MEANS OF TRANSPORTATION

COST

: FROM  TO  :  :

: FROM  TO  :  :

: FROM  TO  :  :

TOTAL

173

EXPENSE SETTLEMENT END SCREEN

181

USER ID: maeda

USER NAME: HIROKO MAEDA

EXPENSE SETTLEMENT FINISHED SUCCESSFULLY.

182

183

FIG.7

PASSWORD CHANGE SCREEN

191

USER ID: maeda

USER NAME: HIROKO MAEDA

FILL IN ALL THE BLANKS AND PRESS THE SUBMIT BUTTON.

CURRENT PASSWORD

192

NEW PASSWORD

193

ENTER NEW PASSWORD AGAIN

194

**SUBMIT**

196

CHANGE COMPLETION SCREEN

301

USER ID: maeda

USER NAME: HIROKO MAEDA

PASSWORD CHANGE FINISHED SUCCESSFULLY.

**TO MENU**

302

**LOG OUT**

303

## FIG.8

## CHANGE FAILURE SCREEN

311

USER ID: maedaUSER NAME: HIROKO MAEDA

PASSWORD CHANGE FAILED.

PASSWORD IS NOT CHANGED.

TO MENU

LOG OUT

312

313

## FORCIBLE TERMINATION SCREEN

321

USER ID: maedaUSER NAME: HIROKO MAEDA

SYSTEM ERROR HAS OCCURRED.

THE PROGRAM WILL BE SHUT DOWN.

FIG.9

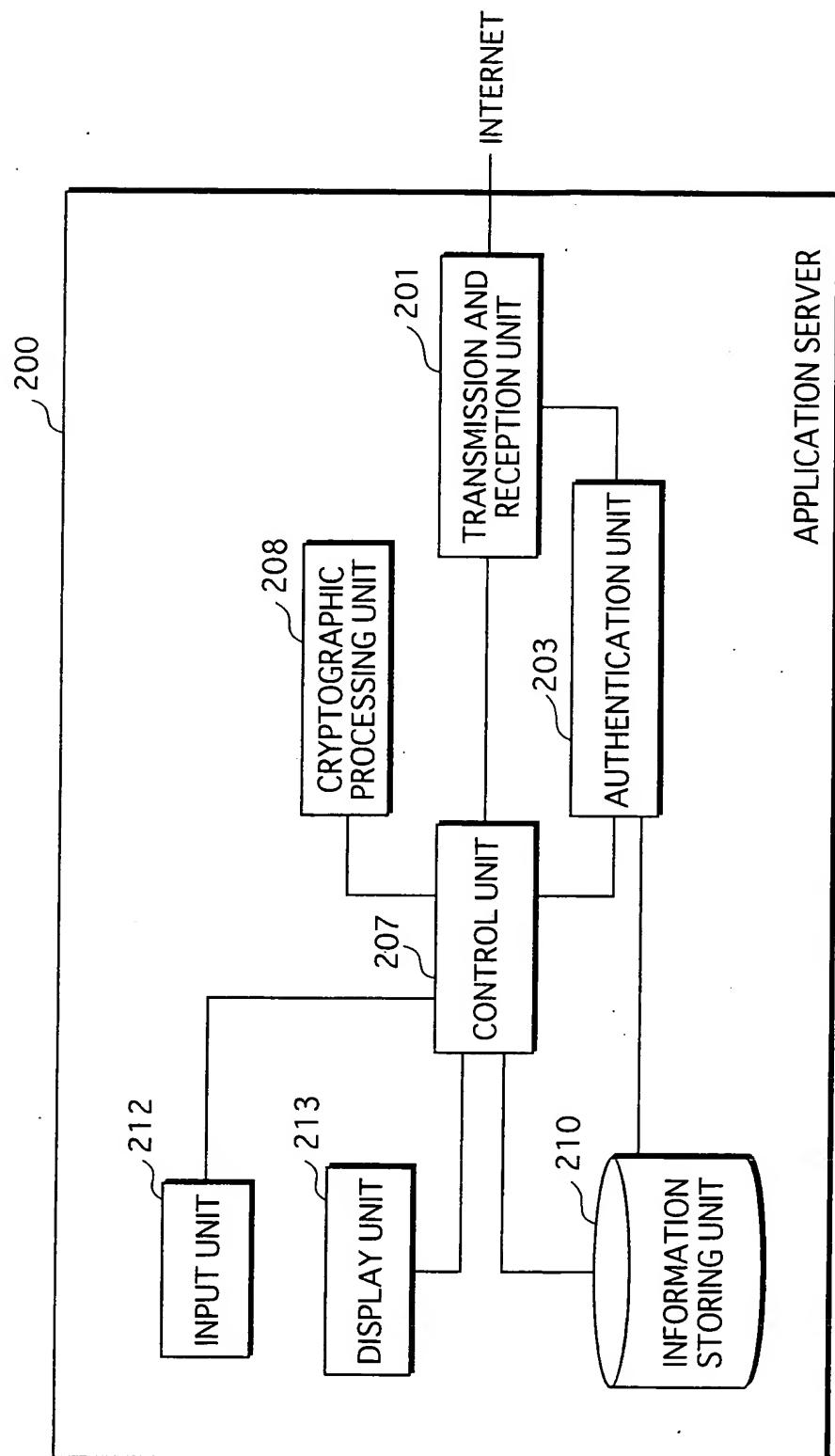


FIG.10

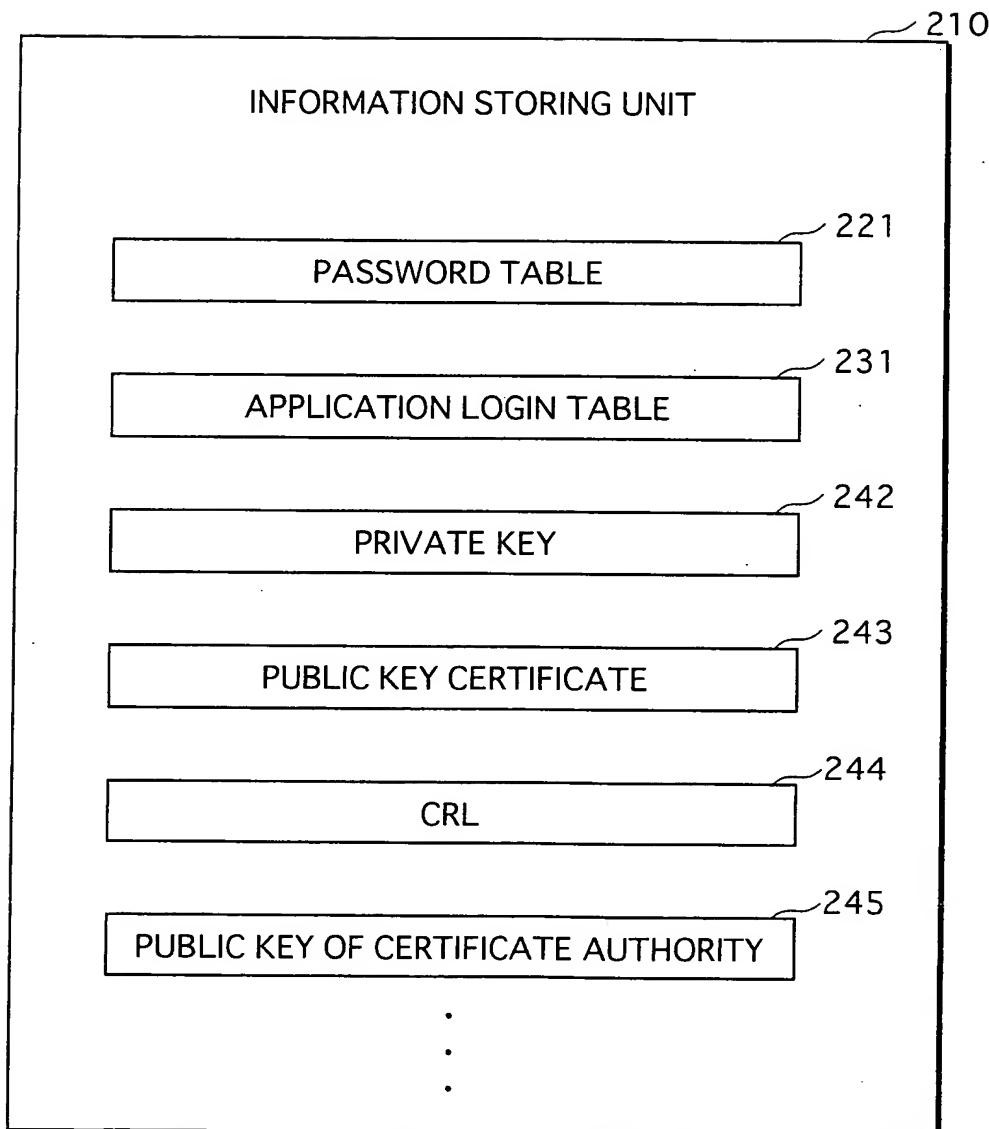


FIG.11

PASSWORD TABLE

221

	USER ID	USER NAME	PASSWORD
223 ~	maeda	HIROKO MAEDA	ozy12
224 ~	nakamura	JYUNICHI NAKAMURA	klmoj
225 ~	suzuki	YUKA SUZUKI	spr01
	⋮	⋮	⋮
	⋮	⋮	⋮
	⋮	⋮	⋮

10/552374

FIG.12

APPLICATION LOGIN TABLE

231

	USER ID	USER NAME	PASSWORD	TERMINAL ID
232 ~	maeda	HIROKO MAEDA	ozy12	ta0n1mal
233 ~	inoue	HIROSHI INOUE	zz445	tzn1pps
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.

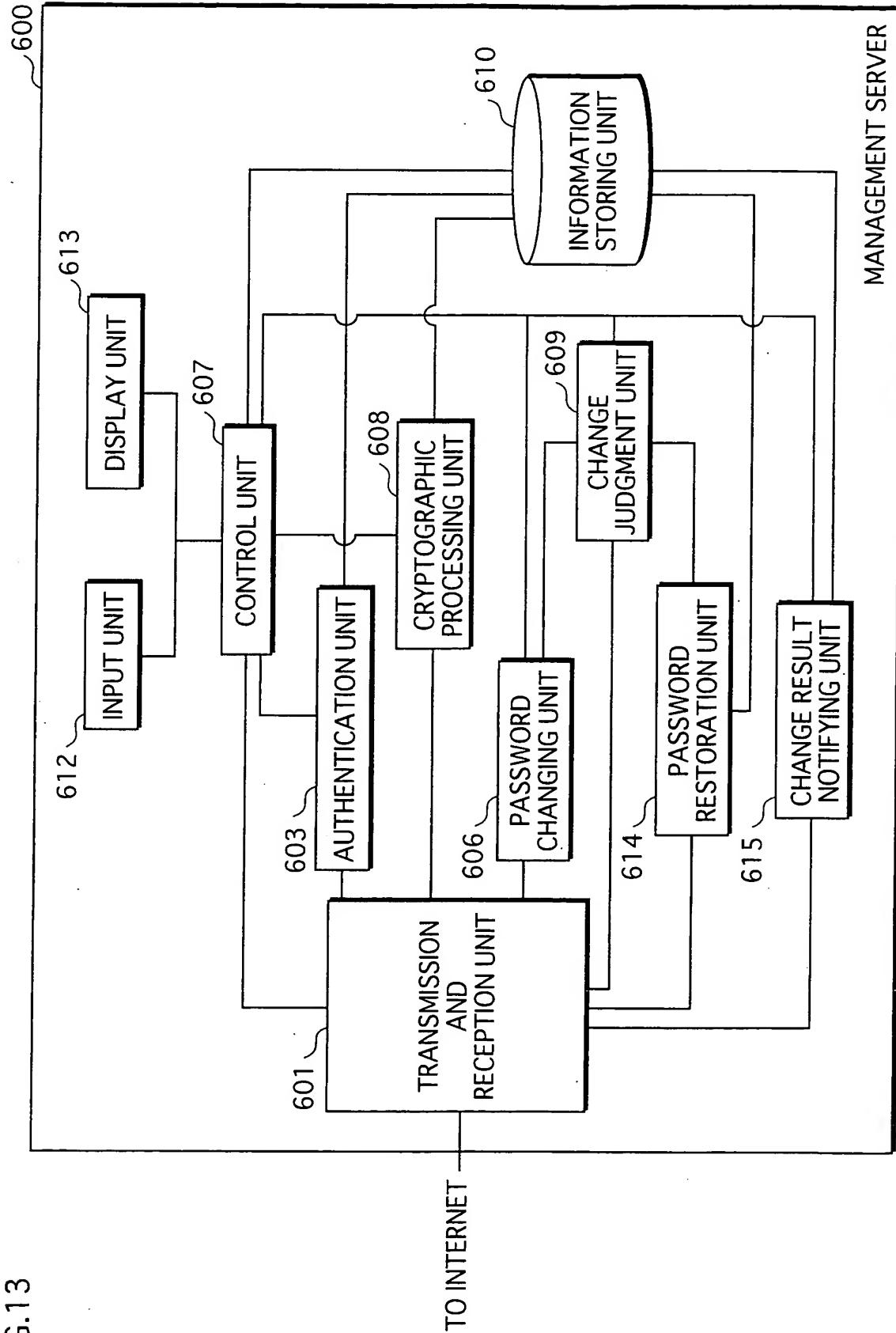


FIG.14

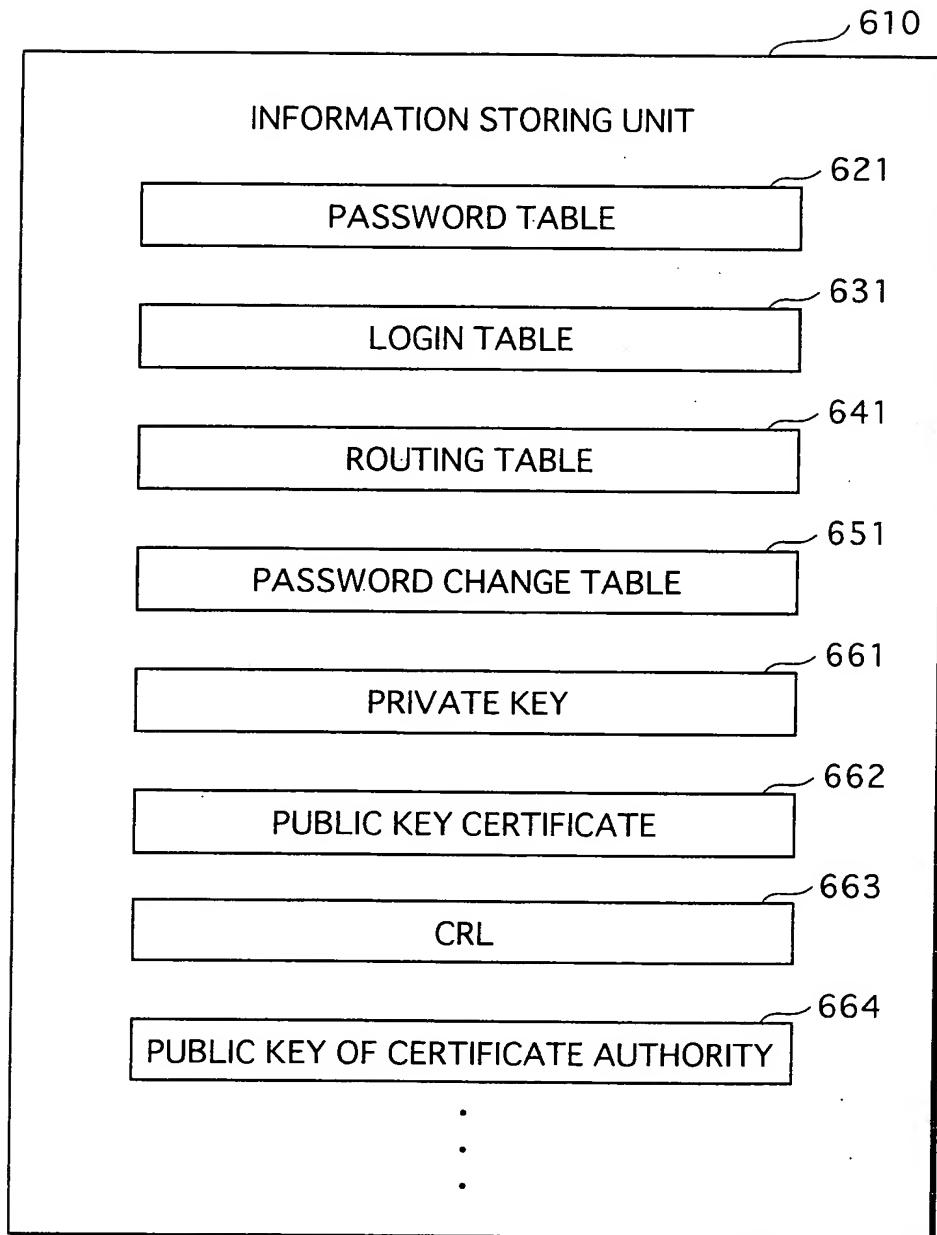


FIG.15

LOGIN TABLE

USER ID	USER NAME	PASSWORD	TERMINAL ID	PROCESSING STATUS
632 ~	maeda	ozy12	ta0n1mal	CHANGING PASSWORD
633 ~	suzuki	spr01	tz00mini	NORMAL
634 ~	inoue	zz445	tzn1pps	NORMAL
	.	.	.	.
	.	.	.	.
	.	.	.	.

FIG.16

ROUTING TABLE

641

APPLICATION NUMBER	HOST NAME	IP ADDRESS	PORT NUMBER
642	001	system1	8000
643	002	system2	8001
.	.	.	.
.	.	.	.
.	.	.	.

10/552374

FIG.17

651

	USER ID	CURRENT PASSWORD	NEW PASSWORD
652 ~	maeda	ozy12	nwy56
653 ~	nakamura	kIm0j	42try
654 ~	suzuki	spr01	iksu7
•	•	•	•
•	•	•	•
•	•	•	•
	inoue	zz445	jty53

10/552374

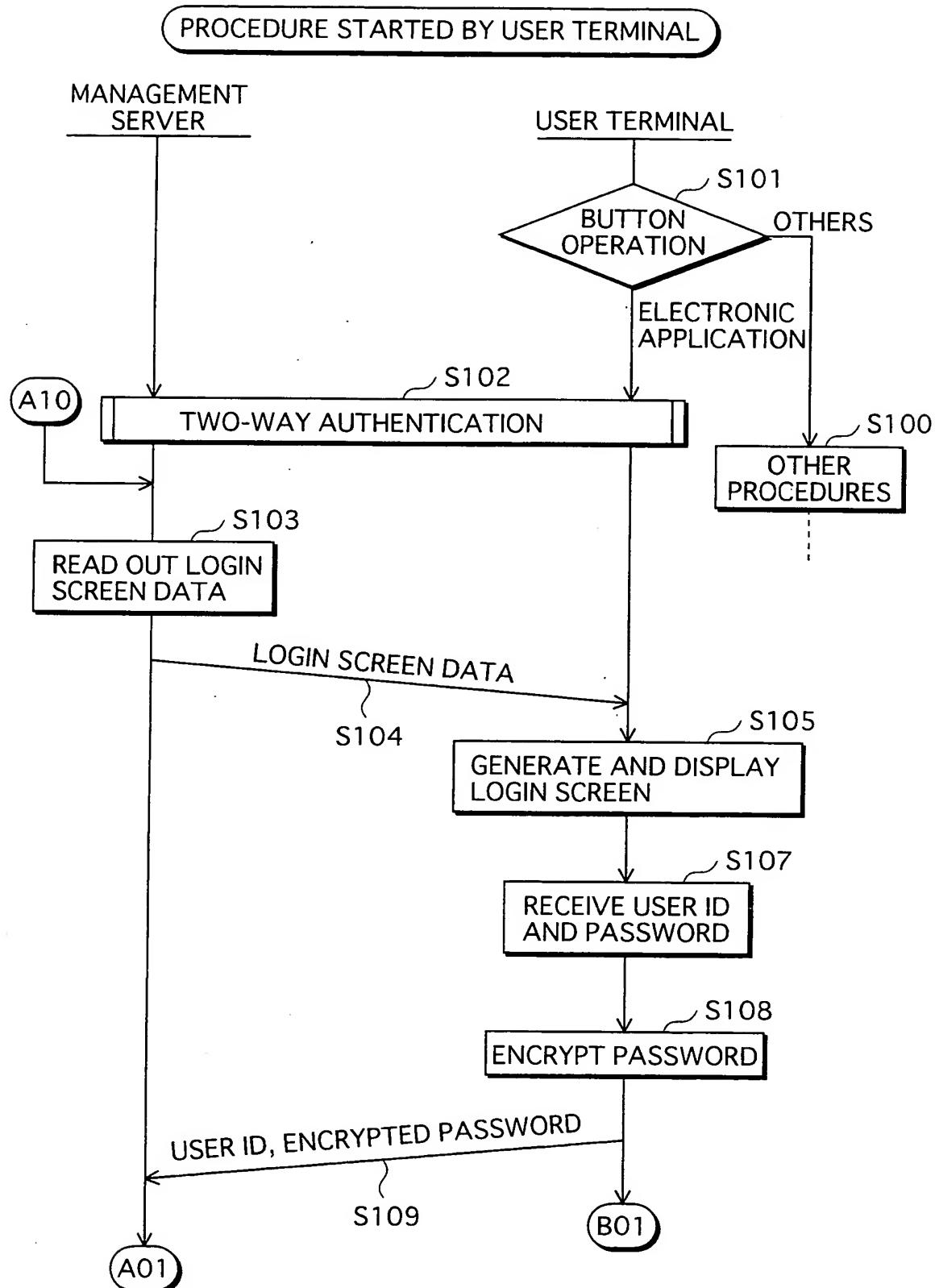
FIG.18

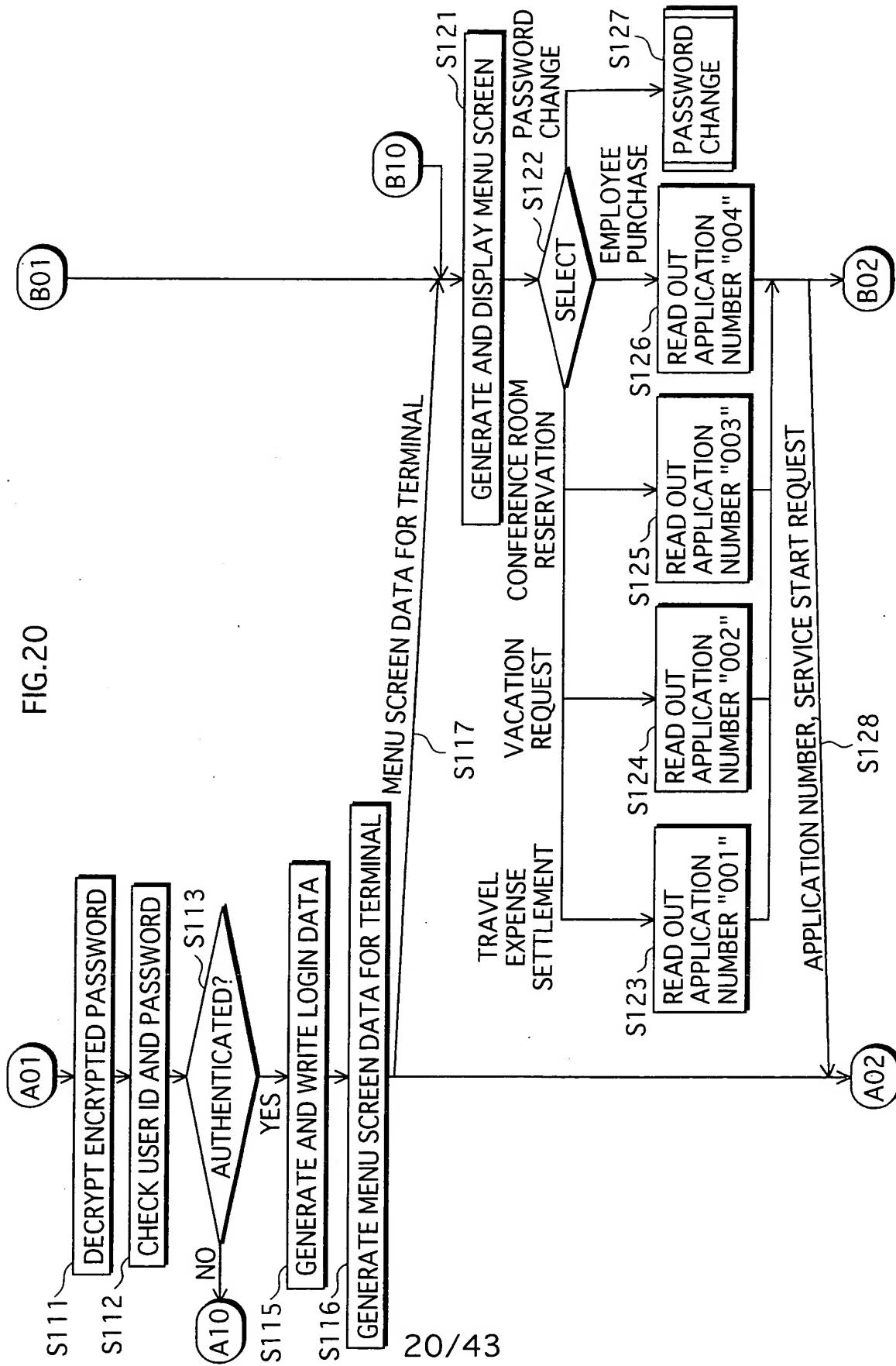
331

PASSWORD INCONSISTENCY  
HAS HAPPEND.

USER ID : maeda

FIG.19





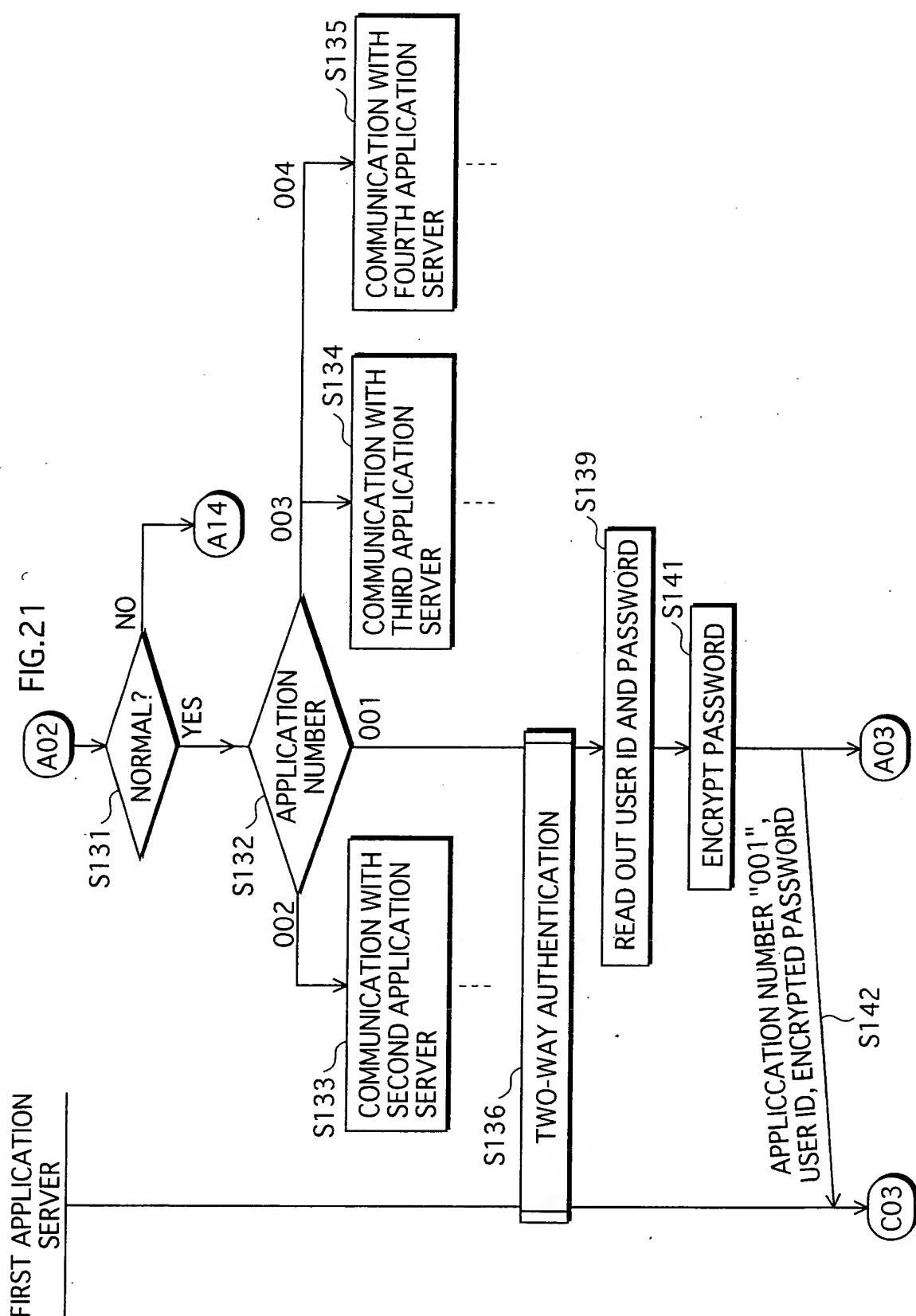
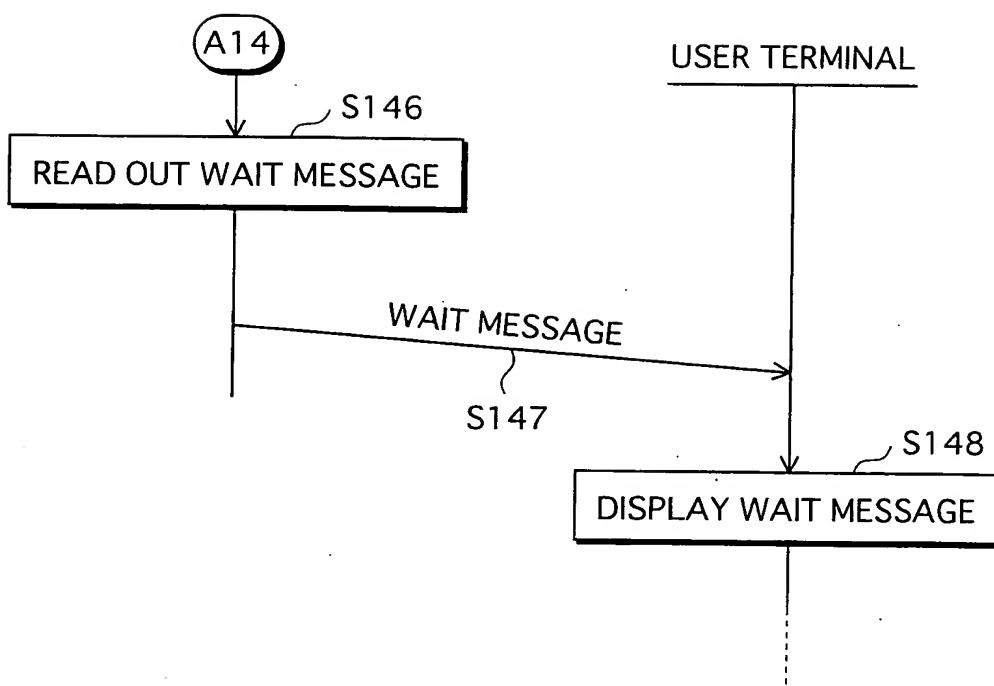


FIG.22



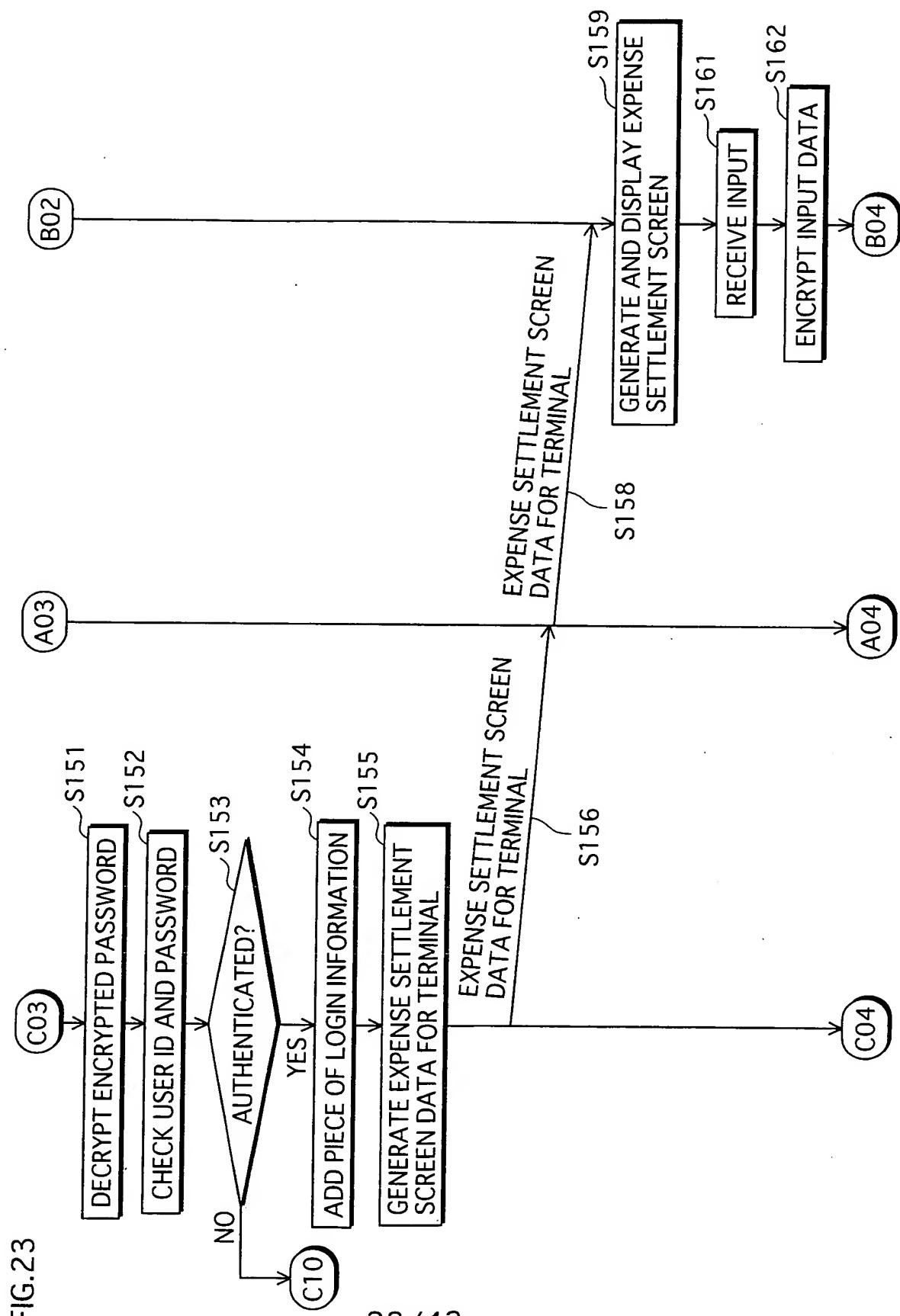


FIG.23

FIG.24

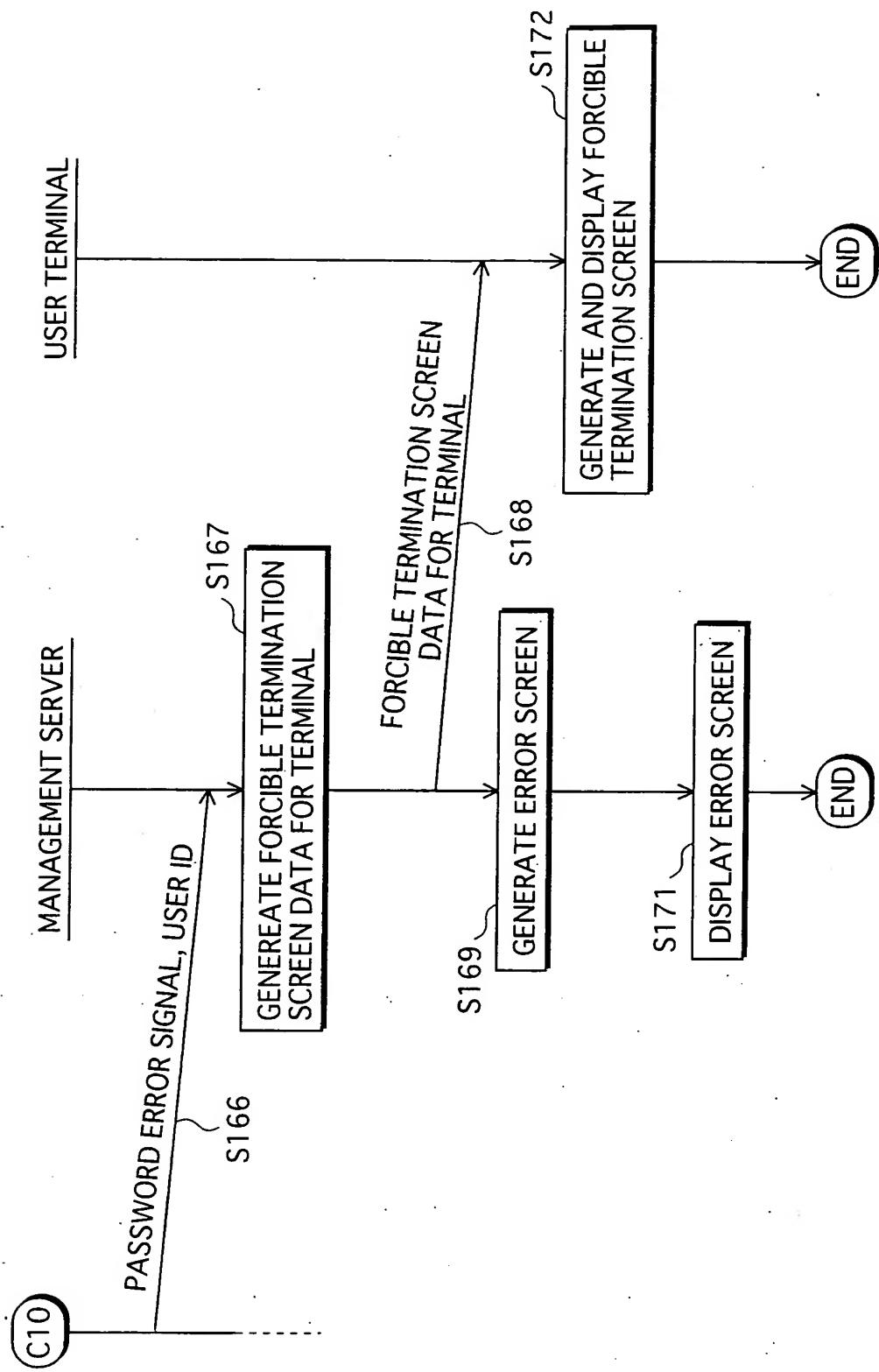
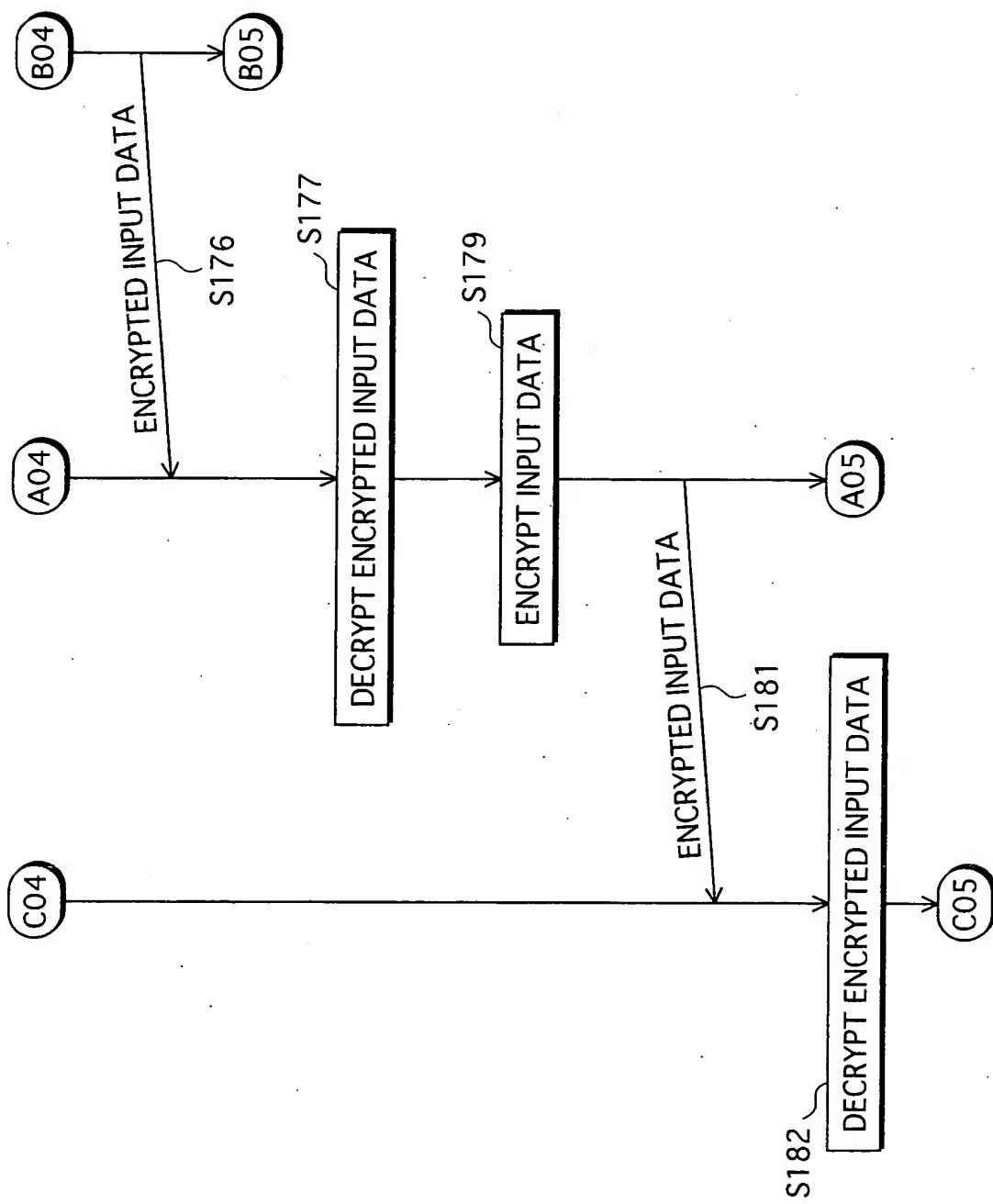


FIG.25



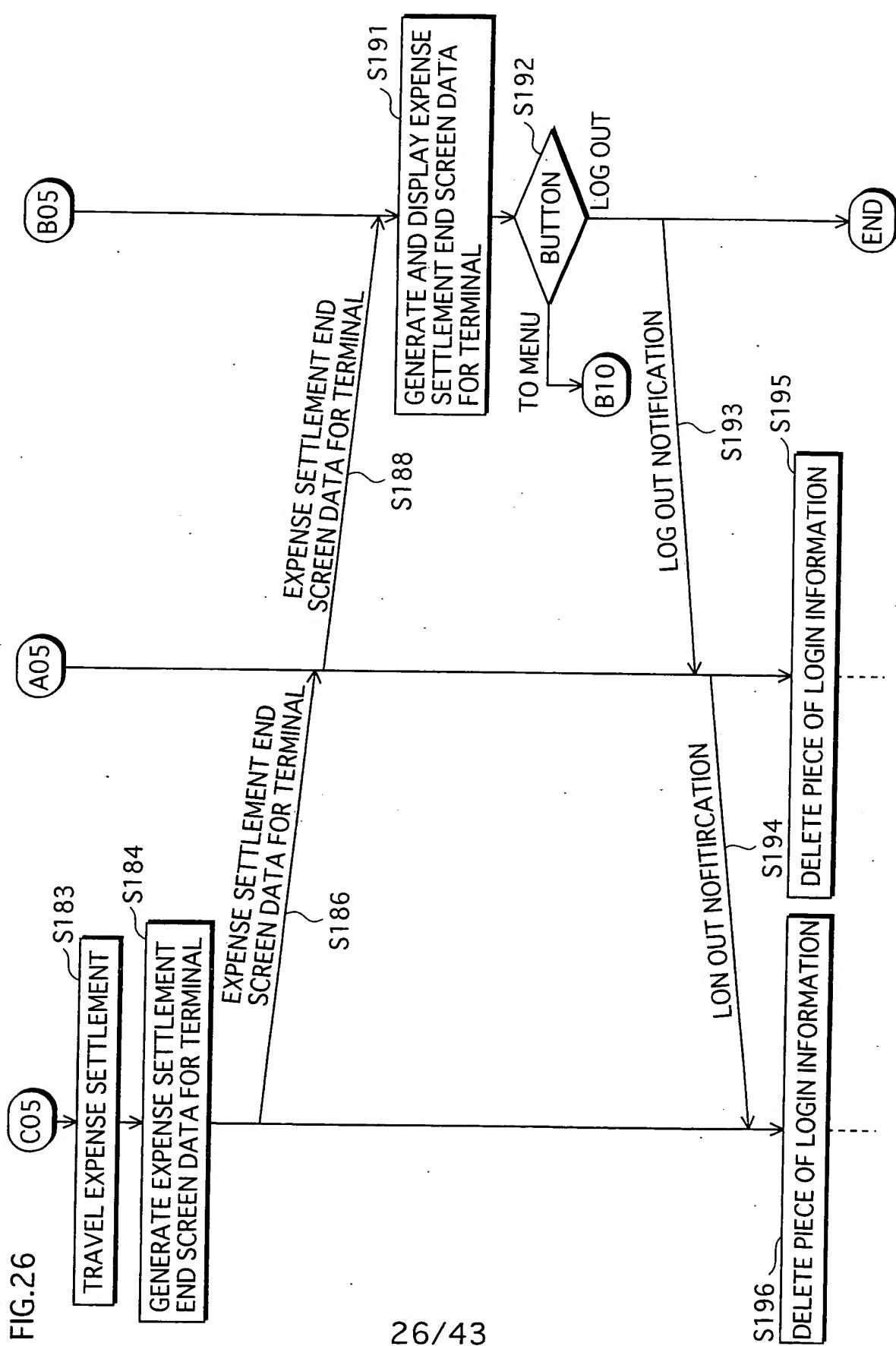


FIG.27

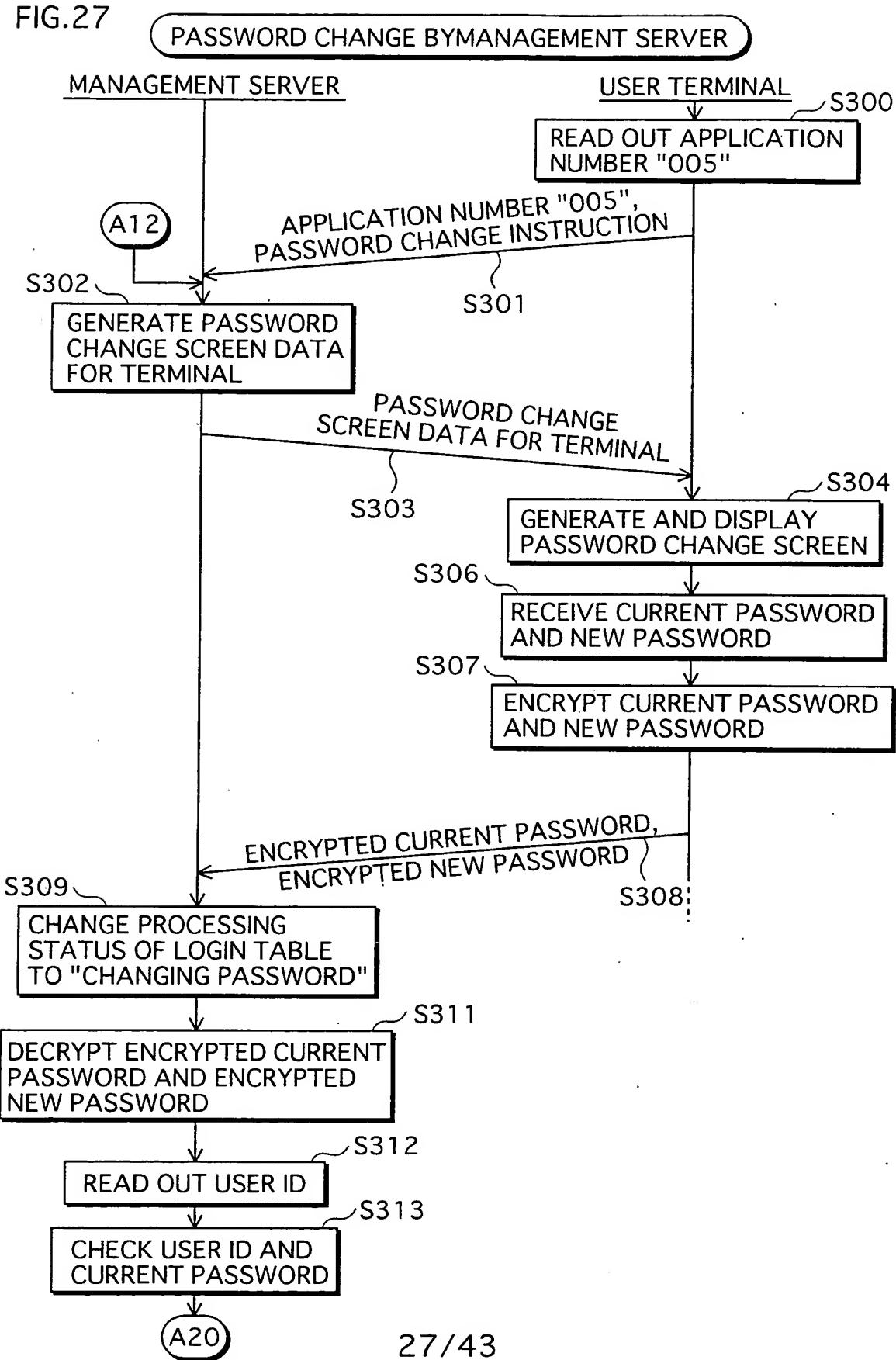


FIG.28

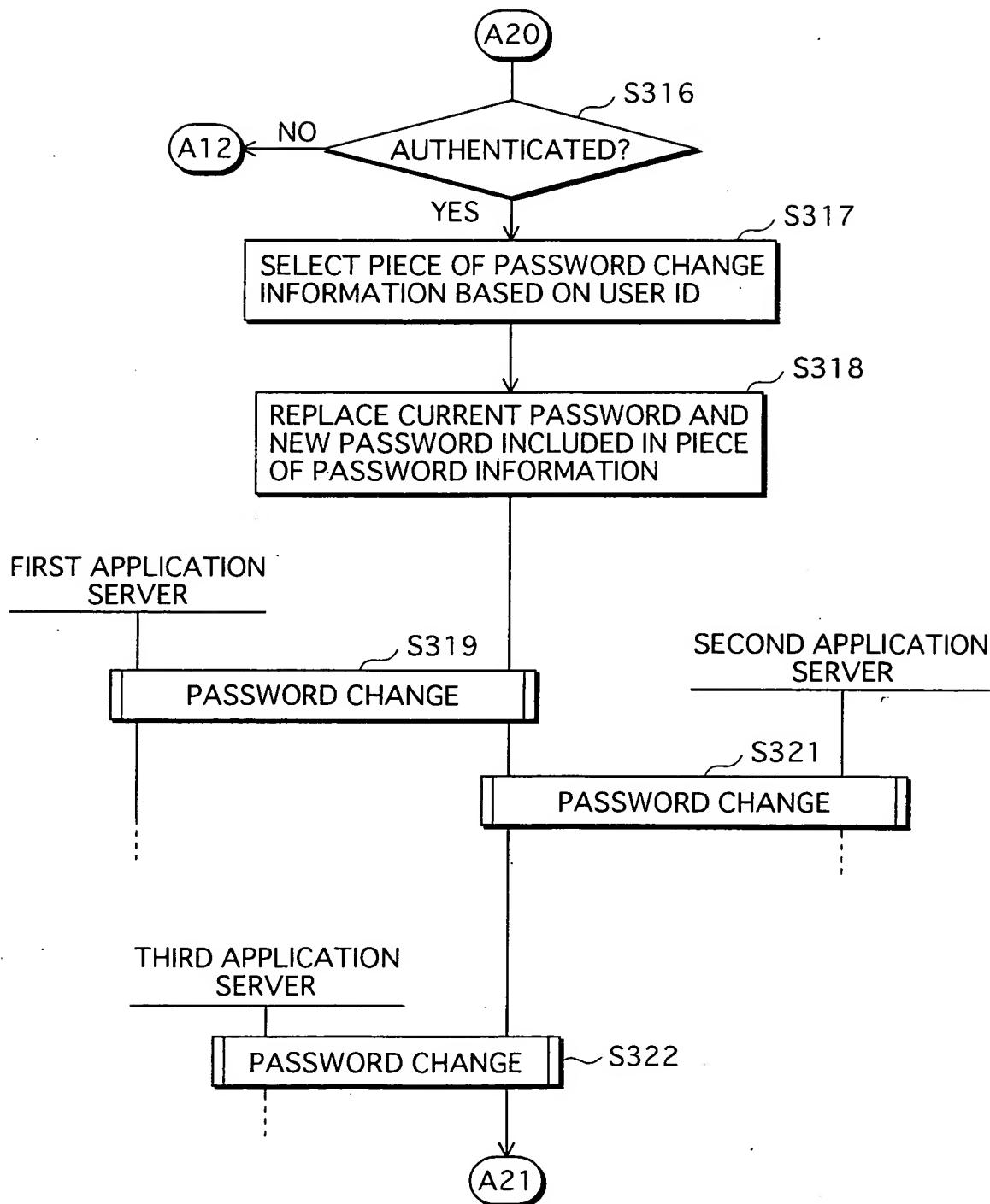


FIG.29

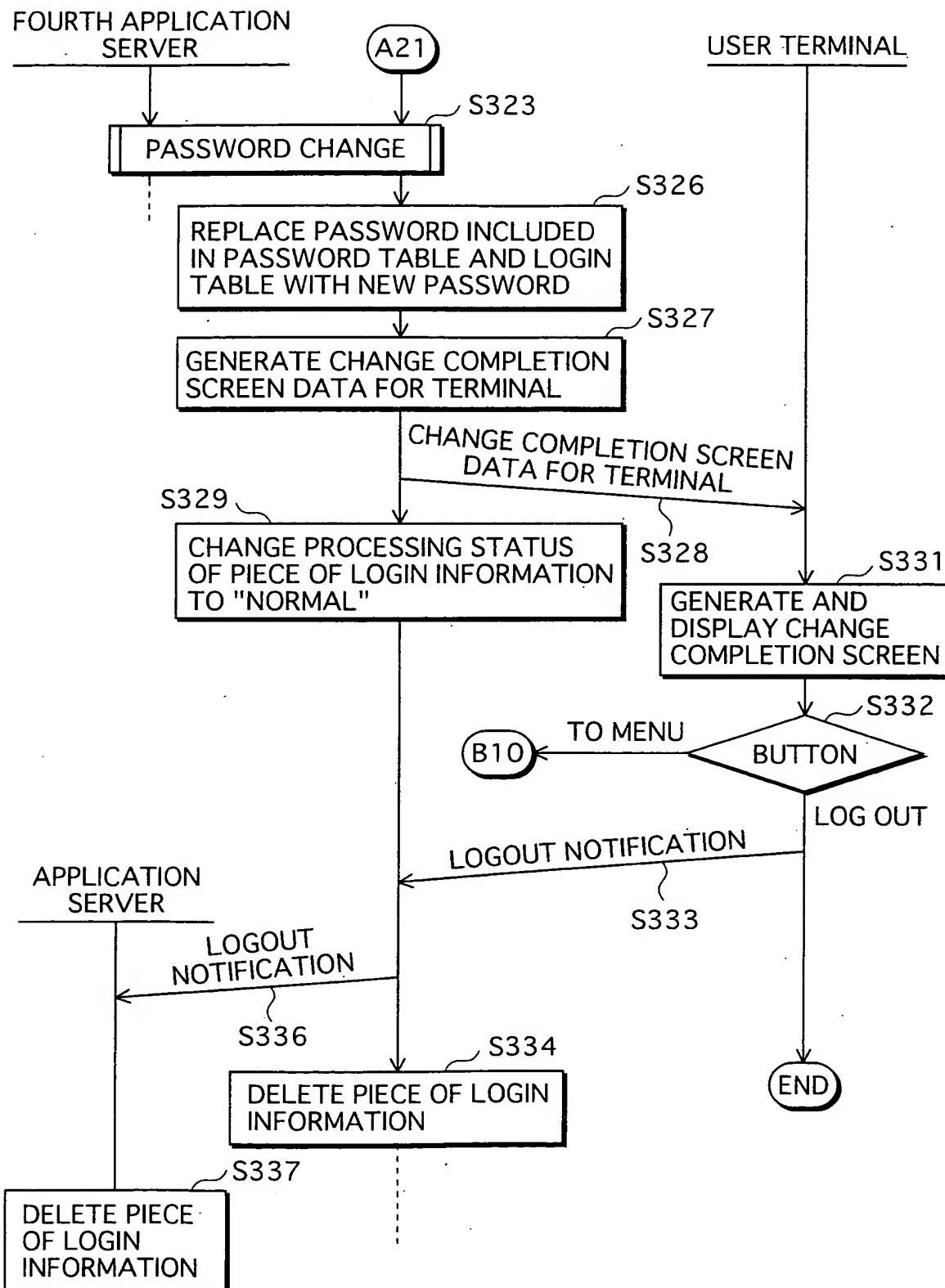


FIG.30

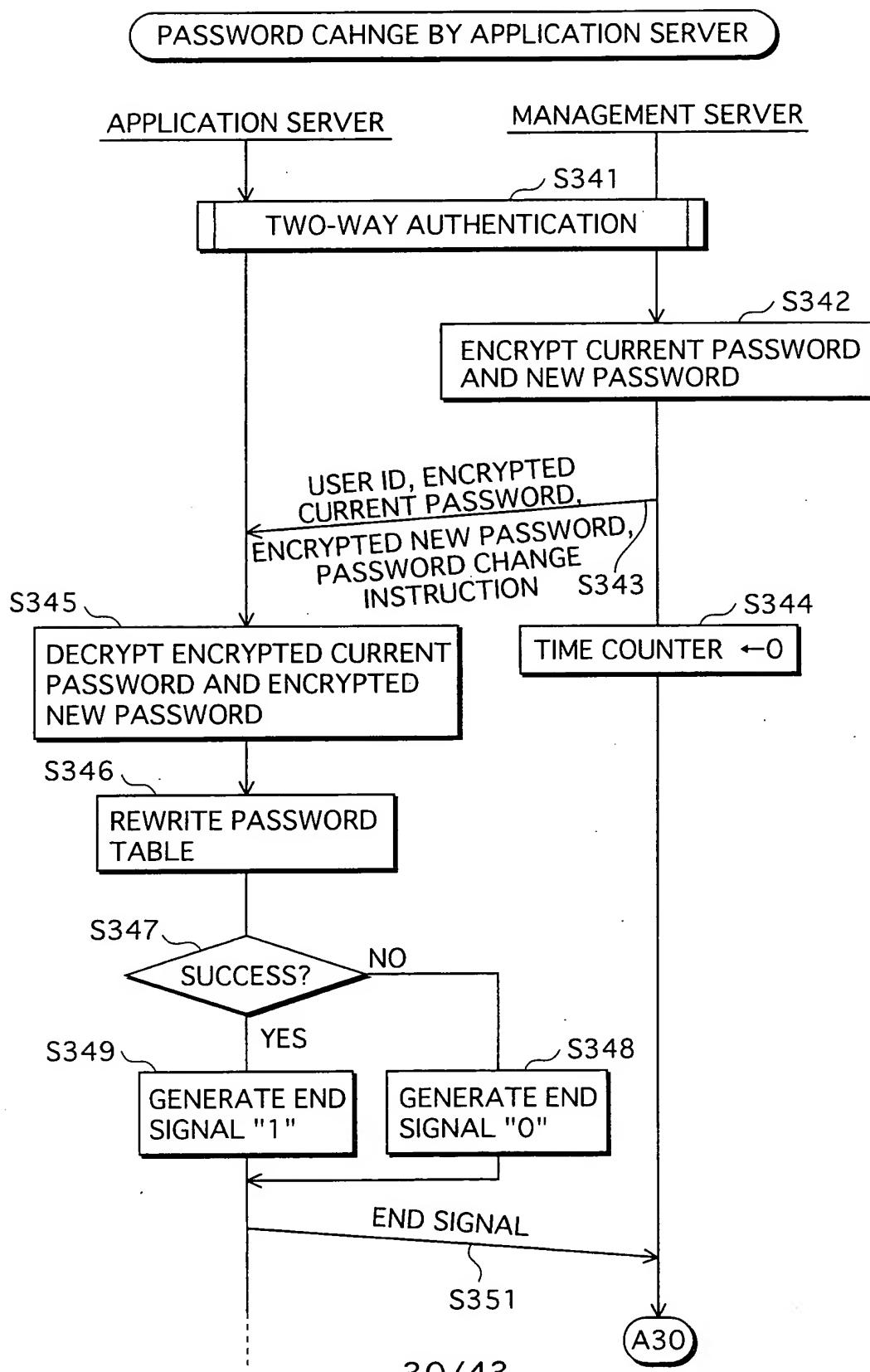
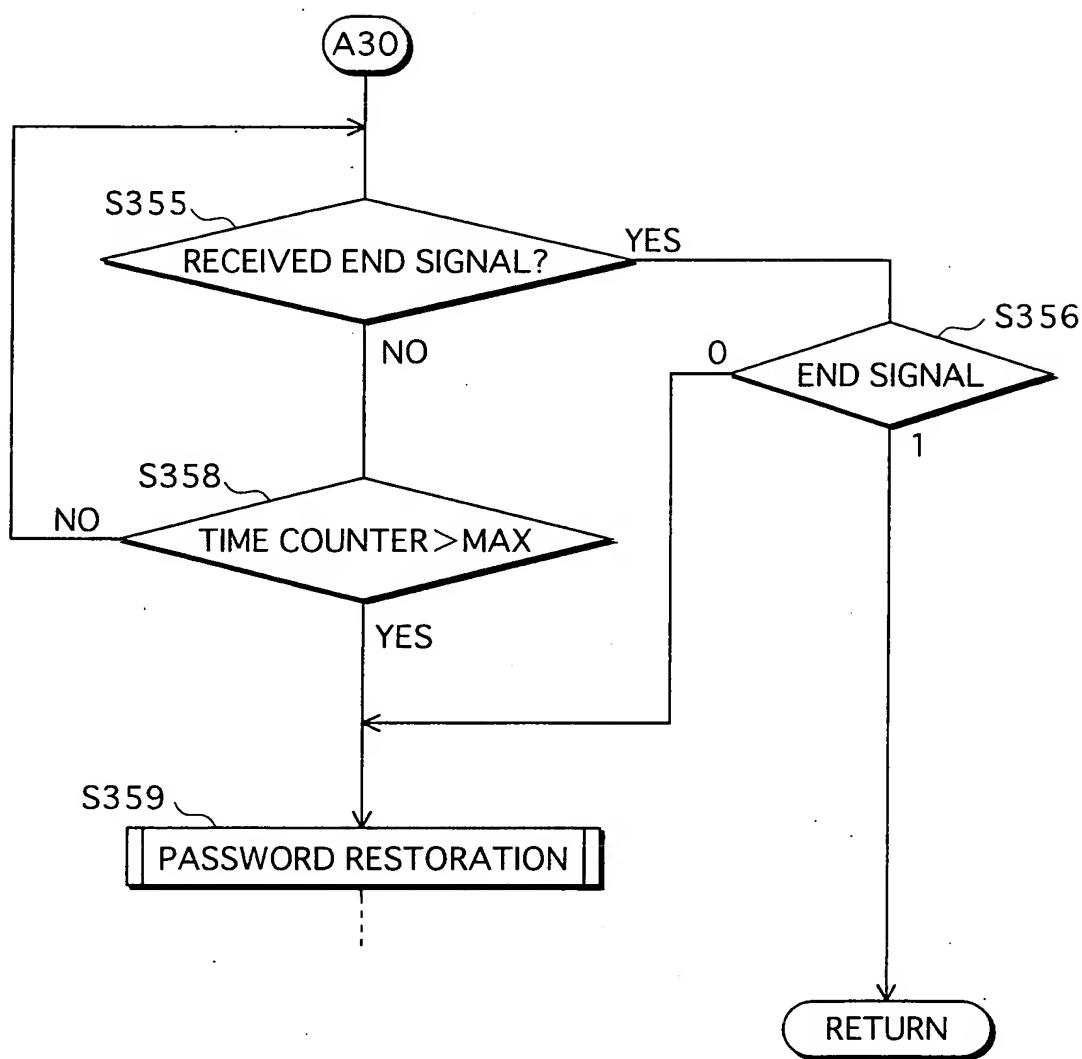


FIG.31



**FIG.32**  
**PASSWORD RESTORATION BY MANAGEMENT SERVER**

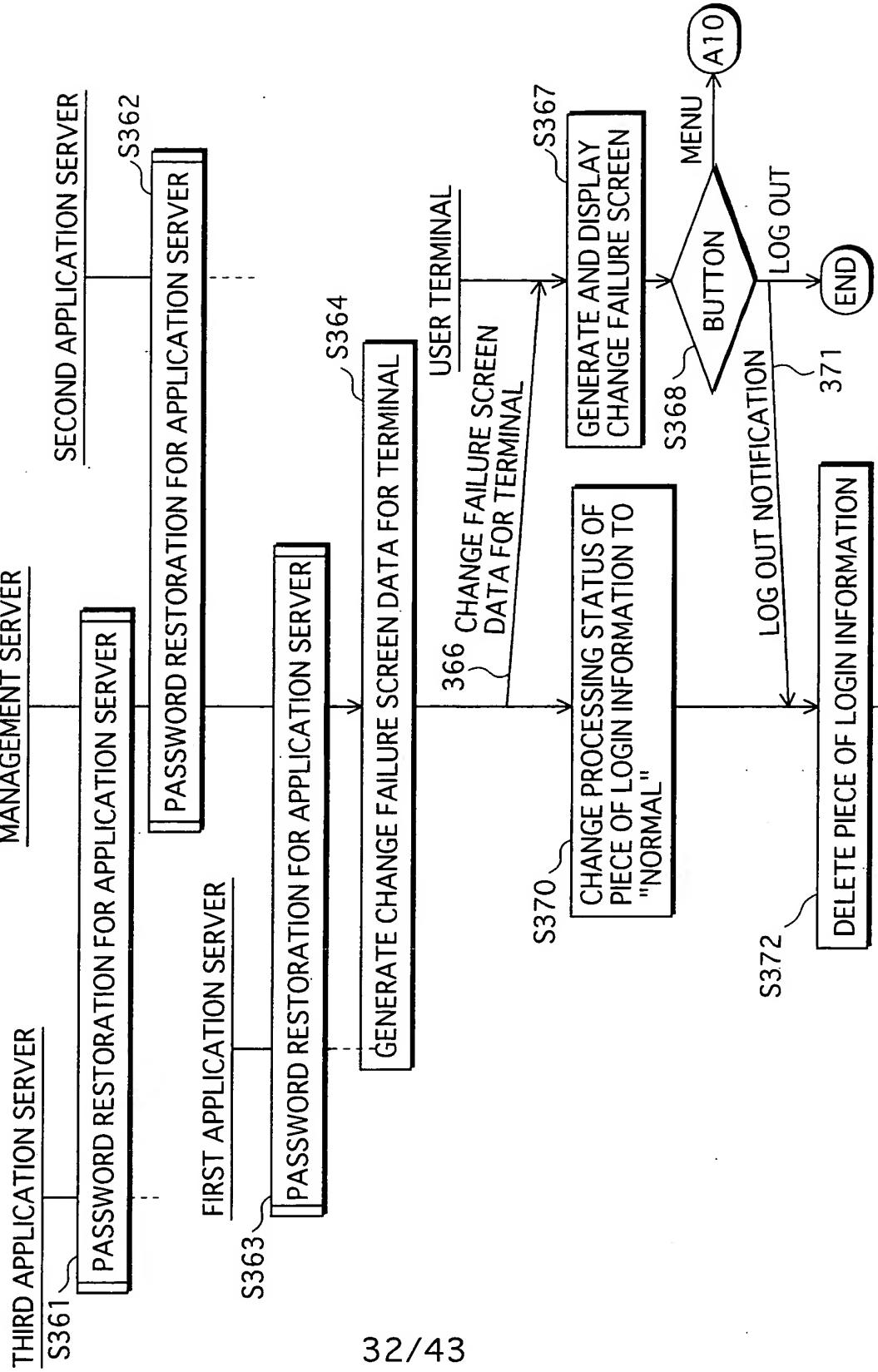


FIG.33

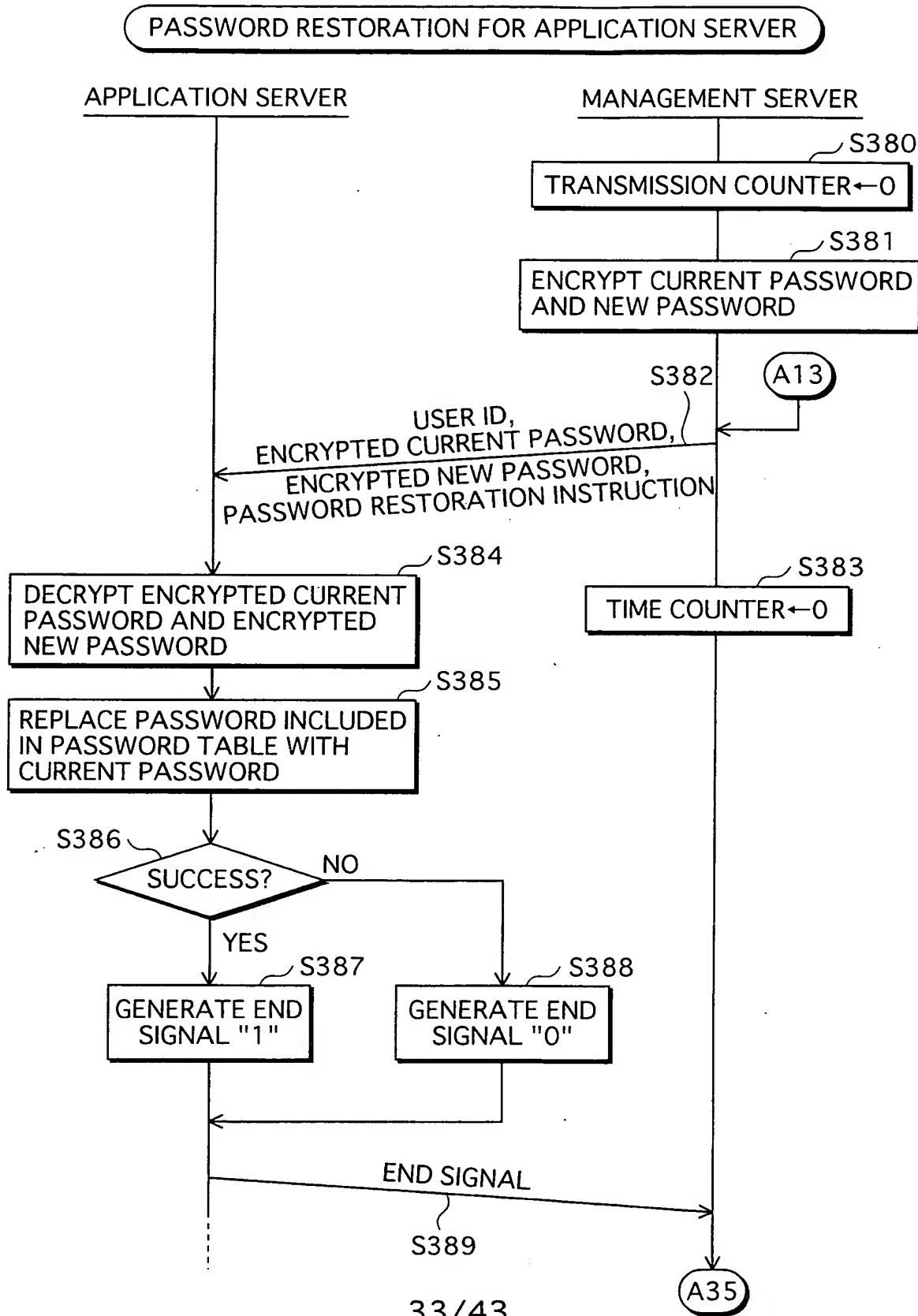
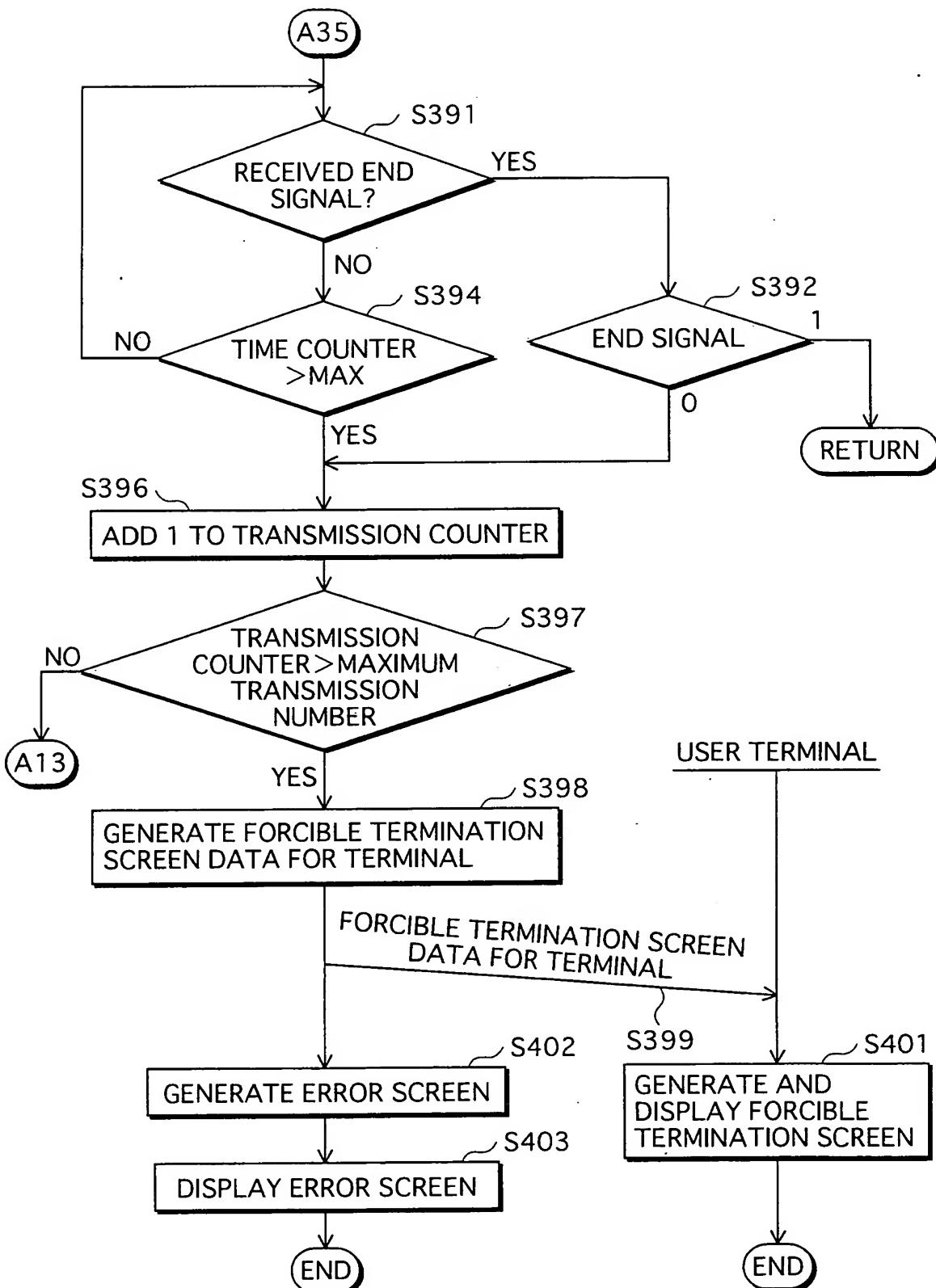


FIG.34



10/552374

FIG.35

## TWO-WAY AUTHENTICATION

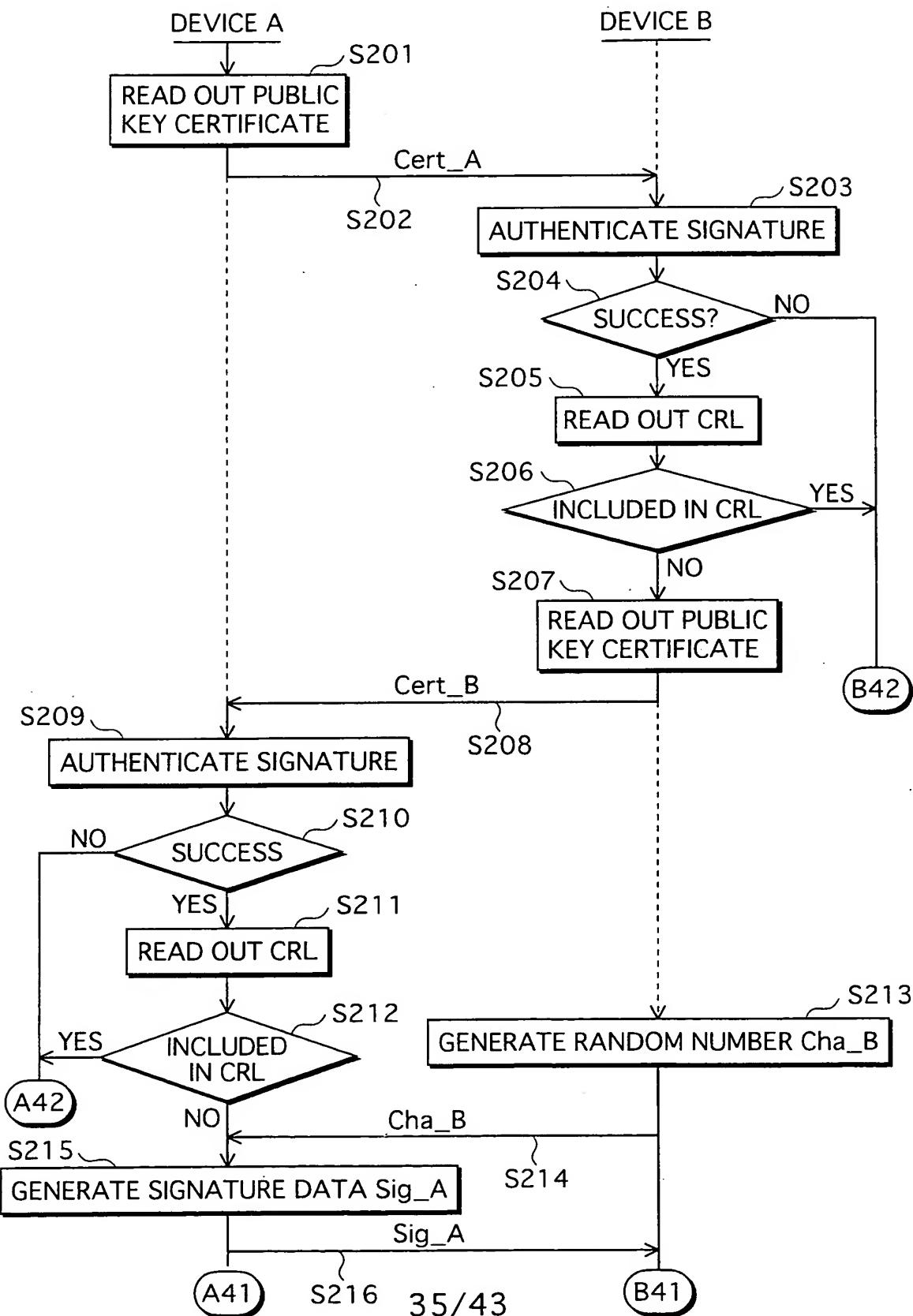


FIG.36

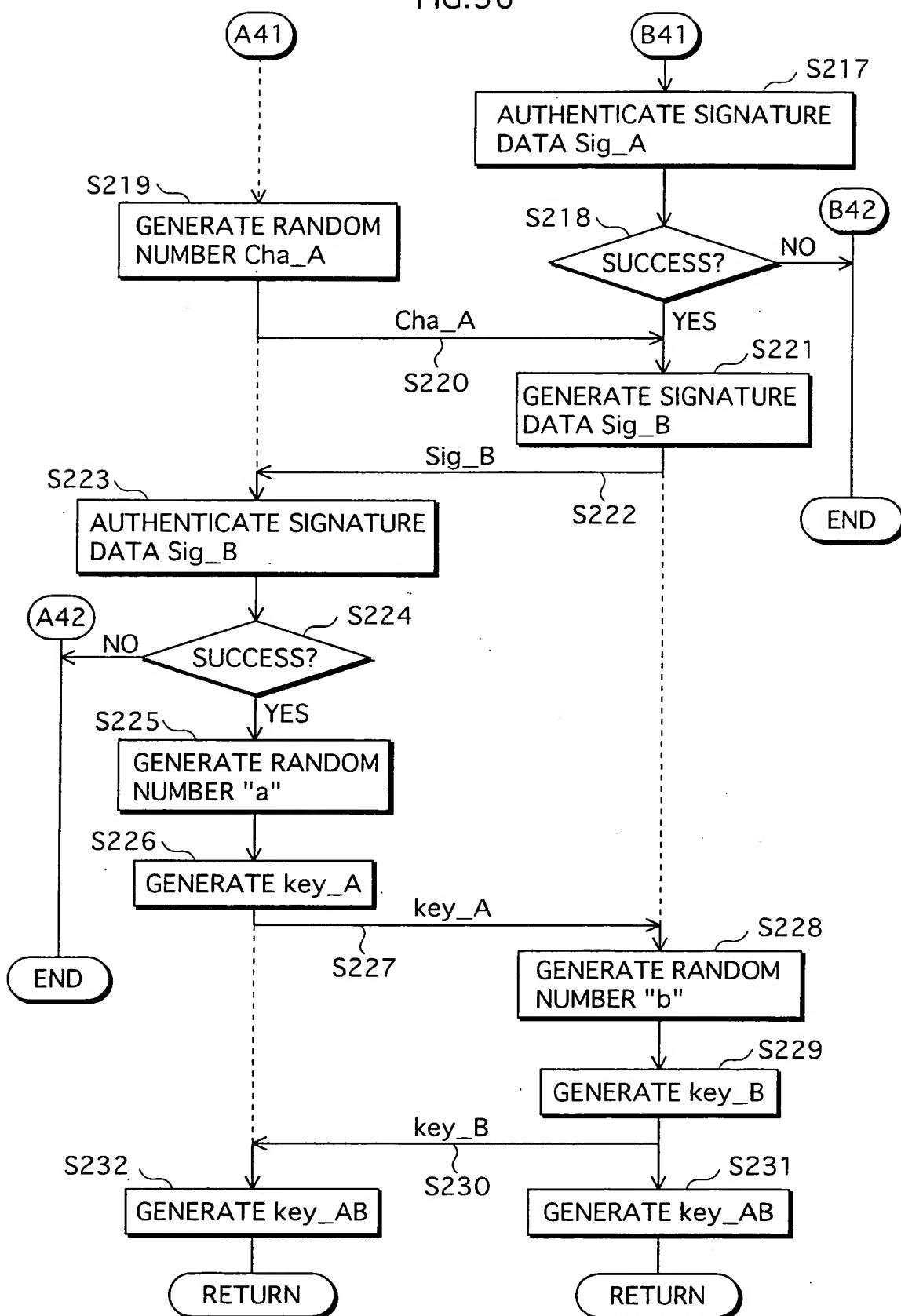


FIG.37A

APPLICATION SERVER NAME	FIRST APPLICATION SERVER	SECOND APPLICATION SERVER	THIRD APPLICATION SERVER	FOURTH APPLICATION SERVER
PASSWORD	ozy12	ozy12	ozy12	ozy12

FIG.37B

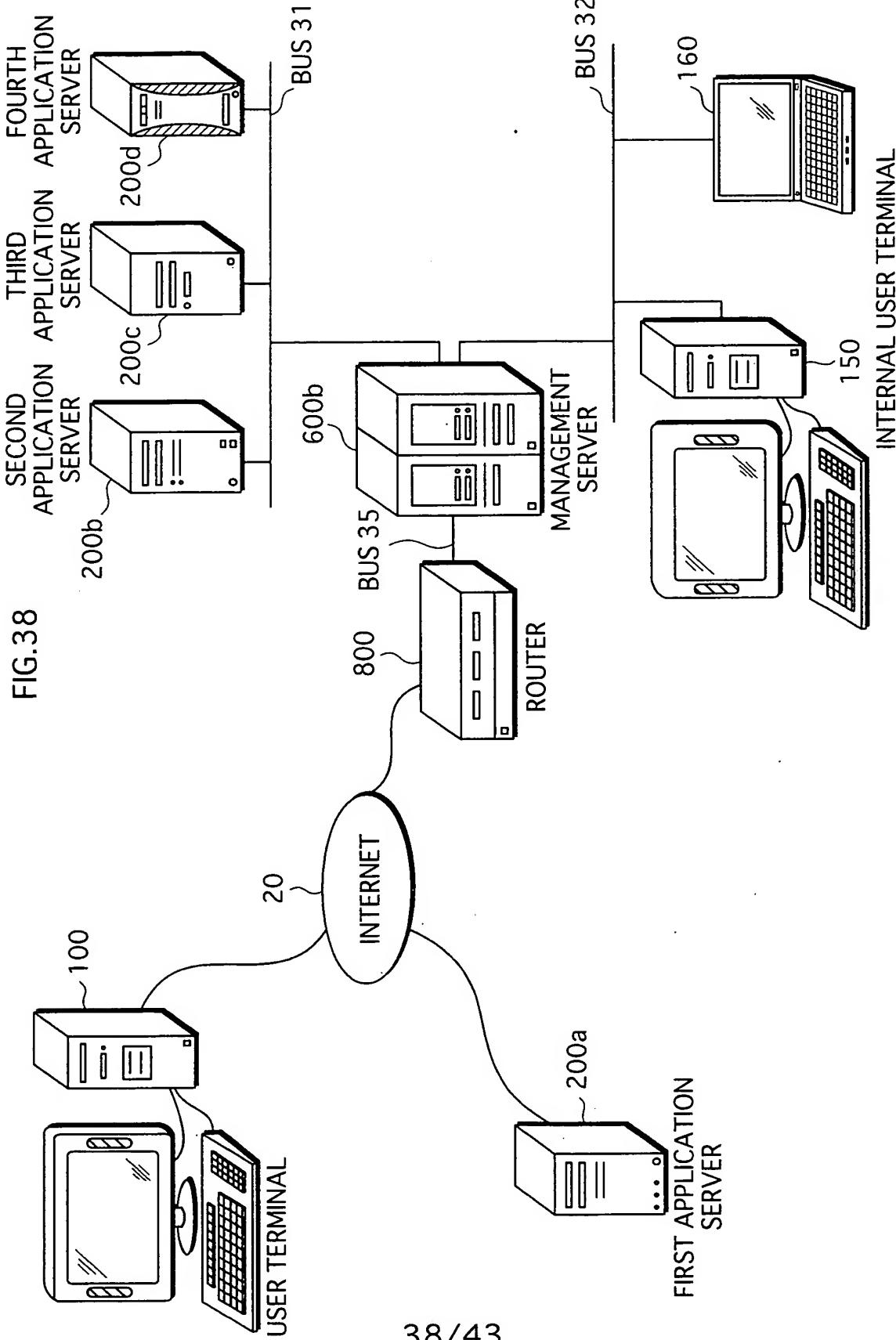
APPLICATION SERVER NAME	FIRST APPLICATION SERVER	SECOND APPLICATION SERVER	THIRD APPLICATION SERVER	FOURTH APPLICATION SERVER
PASSWORD	nwy56	nwy56	ozy12	ozy12

FIG.37C

APPLICATION SERVER NAME	FIRST APPLICATION SERVER	SECOND APPLICATION SERVER	THIRD APPLICATION SERVER	FOURTH APPLICATION SERVER
PASSWORD	ozy12	ozy12	ozy12	ozy12

FIG.37D

APPLICATION SERVER NAME	FIRST APPLICATION SERVER	SECOND APPLICATION SERVER	THIRD APPLICATION SERVER	FOURTH APPLICATION SERVER
PASSWORD	nwy56	nwy56	nwy56	nwy56



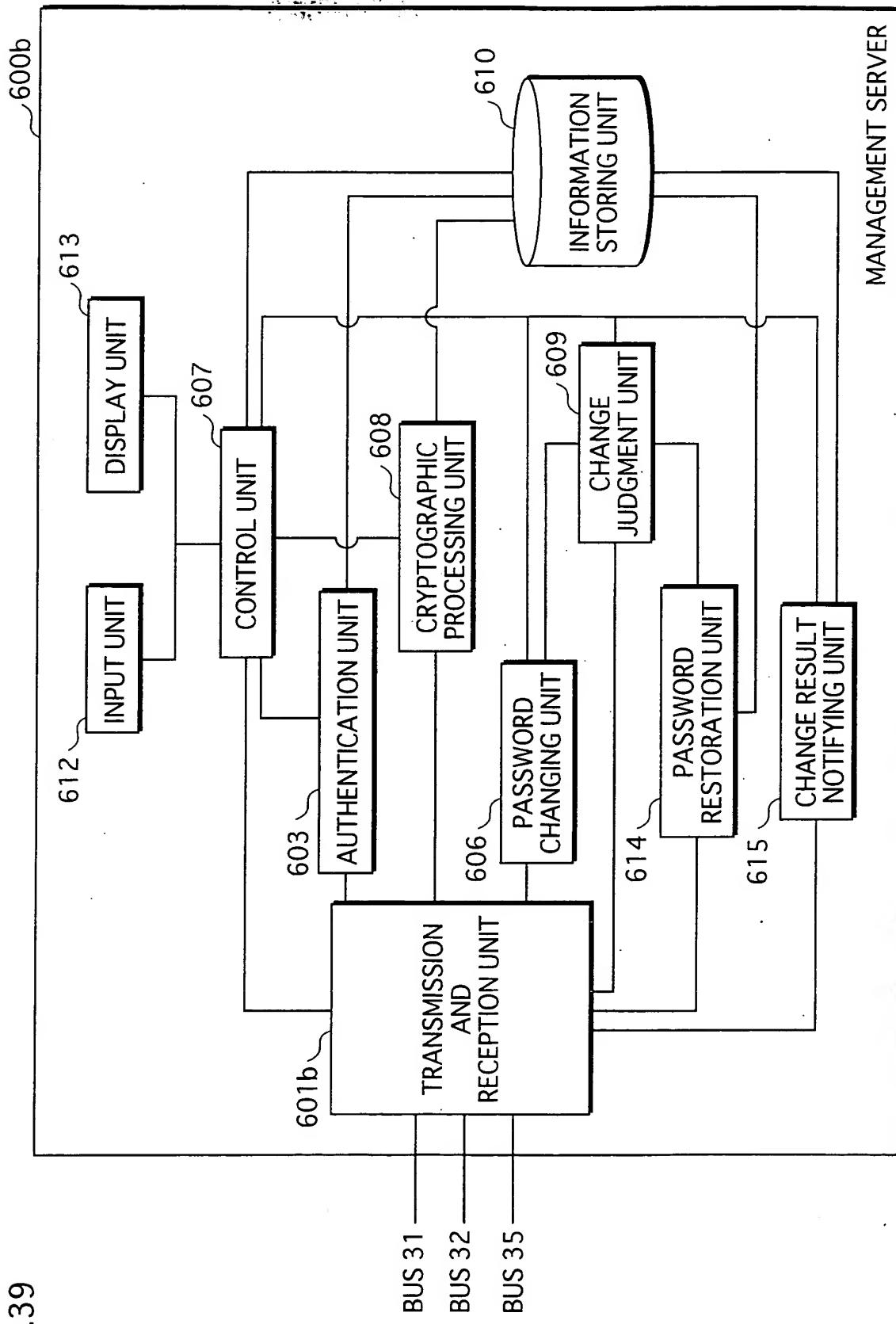
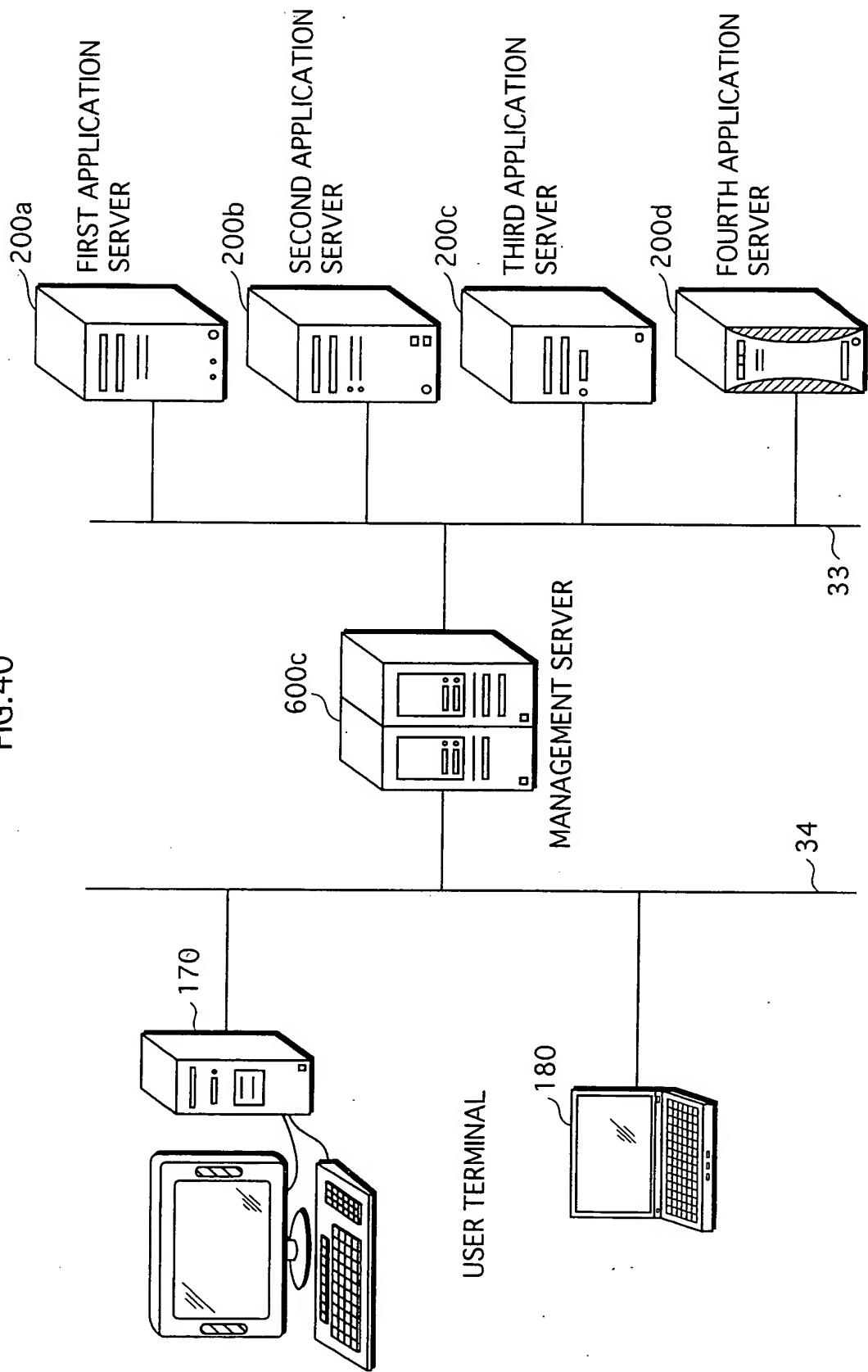


FIG.40



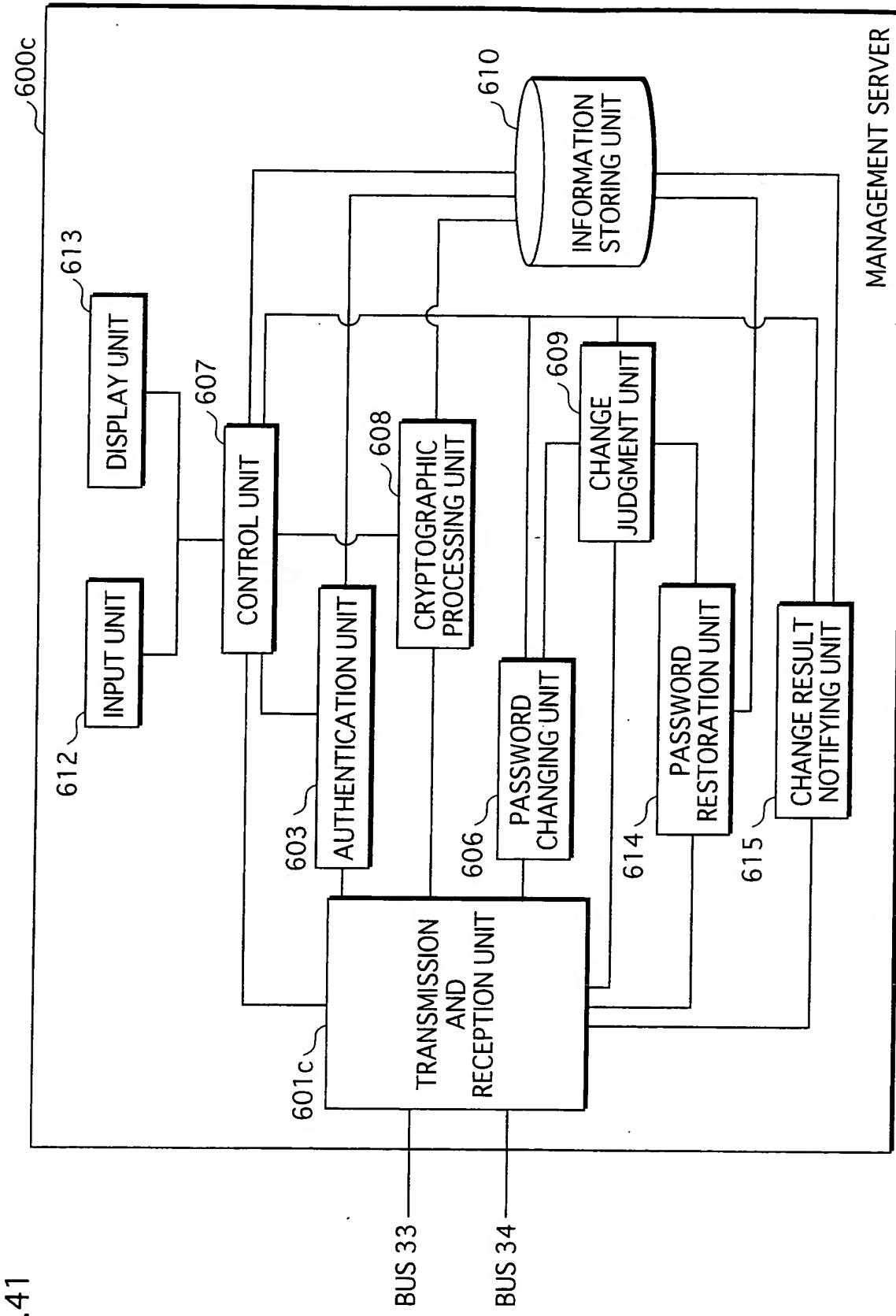


FIG.42

PASSWORD TABLE

USER ID	USER NAME	PASSWORD	UPDATE DATE
maeda	HIROKO MAEDA	ozy12	2003.05.10
nakamura	JYUNICHI NAKAMURA	klmoj	2003.04.28
suzuki	YUKA SUZUKI	spr01	2003.05.15
622b ~	~	~	~
623b ~	~	~	~
624b ~	~	~	~
		•	•
		•	•
		•	•

10/552374

FIG. 43

## ROUTING TABLE

641b

APPLICATION NUMBER	HOST NAME	IP ADDRESS	PORT NUMBER	PROCESSING STATUS
001	system1	60.111.1.15	8000	NORMAL
002	system2	60.111.1.20	8001	MAINTENANCE
...	...	...	...	...
...	...	...	...	...